FISHERY STATISTICS OF THE UNITED STATES

1964

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FISHERY STATISTICS OF THE UNITED STATES

1964

BY

Charles H. Lyles

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Fishery statistics of the United States are compiled and published annually to make available information on both the economic and biological aspects of the domestic commercial fisheries.

Data on the economic aspects are necessary to persons engaged in the commercial fishery and to governmental agencies concerned with its regulation and protection. Those here given cover the total catch and value by species, the yield and value of manufactured products, the employment of men, craft, and gear in the capture of fishery products; and related information.

From the biological standpoint these data are important to sound fishery management in providing detailed information on fluctuations in the commercial catch by species, locality, and gear, and type of craft operated. They assist conservation agencies in regulating the commercial fisheries so as to produce maximum yields without depletion.

Previous statistical reports on the fishery industries were issued under the Department of the Interior in the Administrative Report series for 1938 and in the Statistical Digest series for succeeding years. Reports for preceding years were issued in the Administrative Report series of the former Bureau of Fisheries.

The following is a listing of the various editions of "Fishery Statistics of the United States" issued since 1939:

Statistical Digest Number	Title
1	Fishery Statistics of the United States, 1939
4	Fishery Statistics of the United States, 1940
7	Fishery Statistics of the United States, 1941
11	Fishery Statistics of the United States, 1942
14	Fishery Statistics of the United States, 1943
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27	Fishery Statistics of the United States, 1950
30	Fishery Statistics of the United States, 1951
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FISHERY STATISTICS OF THE UNITED STATES, 1964

CHARLES H. LYLES, Acting Chief, Branch of Fishery Statistics

Division of Economics

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The cooperation of the many contributors is gratefully acknowledged. Cooperators are given credit for their information in the section of the report in which the data appear.

PREFACE

This report contains a review of the fishery statistics for the year 1964 collected by the Branch of Fishery Statistics, Division ot Economics. These statistics include data on the volume and value of the catch of fishery products, employment in the fisheries, quantity of gear operated, number of fishing craft employed in the capture of fishery products, information on the volume and value of the production of manufactured fishery products, data on cold storage freezings and holdings, and on foreign trade in fishery commodities.

Data on employment of fishermen, fishing craft and gear in the fisheries, and on the catch of fish, shellfish, etc., are shown for States having commercial fisheries. There is also information on the pack of canned tuna and industrial products for Puerto Rico and American Samoa included in the manufactured products tables. In Section 11, Puerto Rico; catch data are also shown.

In all of the catch tables in this report, except the one on page 30 entitled, "U.S. Catch, 1964 - Live Weight Basis," the volume of fish, crustaceans, and such mollusks as squid is shown in round (live) weight. However, the weights shown for univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.,) represent the weights of meats, excluding the shell. The weight of shells omitted from the catch in 1964 amounted to about 1.3 billion pounds. It should be noted, however, that the table on page 31 "World Catch of Fish, Crustaceans, Mollusks, Etc., by Countries" is shown on a live weight basis.

In assembling the data on the fisheries, all appropriate records collected by the various State fishery agencies were used. In certain areas, information complete enough to be used by the Statistical agents was available from State agencies, and in these States, only partial surveys were conducted. Information on the means of collecting the data and an explanation of terms used may be found in Section 14 of this publication.

Complete statistical surveys covering the fisheries of the United States were conducted in all areas for 1964. The first complete survey of the fisheries of the United States was made by the Bureau of the Census for 1908. Others were made by the Bureau of Fisheries and the Fish and Wildlife Service for the years 1931, 1950, and for the years 1954 to 1960 and for 1962 and 1963.

To assist persons interested in reviewing historical statistics of the domestic fisheries, a bibliography was published in the 1956 edition of "Fishery Statistics of the United States", listing the sources of data on the fisheries of the various regions of the United States for the years from 1880 to 1956.

SECTION 1 - GENERAL REVIEW

U.S. commercial landings of fish, shellfish, and other aquatic products in 1964 were 4.5 billion pounds with a value of $389.5 million at ex-vessel level. This was 306.5 million pounds less, but $12.3 million more than in the previous year. There were record landings of blue crabs, king crabs, clams, and yellowtail flounders.

The catch was made by 127,875 fishermen operating 11,808 vessels of 5 net tons or greater and 64,604 motor boats and other boats. Compared with 1963, this was a decrease of 595 fishermen, 120 vessels, and 1,441 boats.

U.S. fishermen took 701.1 million pounds of shellfish valued at $174.1 million and averaging 25 cents per pound. The value of shellfish exceeded that of fish in 13 of the 18 Atlantic and Gulf coast States.

Disposition of Catch. In 1964, as in the previous year, the catch taken for human food (2.5 billion pounds) exceeded the quantity taken for industrial products (2.0 billion pounds). The latter include the items manufactured into meal, oil, and solubles; used for bait; fed to fur-bearing animals and pets; and manufactured into shell buttons, etc. Bureau of Commercial Fisheries statisticians estimate that the 1964 catch was used as follows: 1,643 million pounds (round weight) as fresh and frozen, 1,033 million for canning, 71 million for cured products, and 1,794 million pounds for manufacture into industrial products.

Per Capita Consumption. The per capita consumption of commercially caught fish and shellfish in the United States was 10.5 pounds (edible weight)--0.1 pound less than in 1963 and 1962.

PER CAPITA CONSUMPTION OF COMMERCIALLY CAUGHT FISH AND SHELLFISH, 1962-64
(Edible weight)

Year	Pounds
1962.	10.6
1963.	10.6
1964.	10.5

Vessels. Five hundred and three vessels obtained documents from the Bureau of Customs as fishing craft in 1964. Of this number, 369 (totaling 17,842 gross tons) were built in 1964. An additional 40 vessels (totaling 1,511 gross tons) were constructed in 1963 but were too late to obtain documents in that year and were added to the fleet during 1964.

Of the 369 vessels constructed in 1964, 357 were less than 100 gross tons; 7 ranged from 100 to 199 tons; 3 from 200 to 399 tons; and 2 were over 400 tons. The largest fishing vessel built in 1964 was 806 gross tons. Of the 40 vessels constructed late in 1963, but obtaining documents in 1964, all were less than 90 gross tons.

Of the 79 vessels built prior to 1963 but obtaining documents in 1964, 73 had known ages of 4 to 40 years; the ages of 6 were unknown. These vessels were largely converted from Naval or military craft and had not previously been documented by the Bureau of Customs for commercial trade. Seventy-four of the 79 were less than 100 gross tons; the remaining 5 ranged from 160 to 540 gross tons. The 15 vessels previously documented but removed, for one reason or another, from documentation were almost all under 50 gross tons. Two of these craft, however, were of the 130 and 430 gross-ton class.

There was a general trend to larger vessels in the shrimp, menhaden, and tuna fisheries. Changes in the shrimp fleet included installation of larger, more powerful engines and electronic devices to aid in fishing and navigation. In addition to the use of larger craft, the menhaden fleet continued to increase its efficiency by installing refrigeration equipment, which permitted vessels to stay out for longer periods and improved the quality of the fish landed.

Principal States. Louisiana again led all other States in volume of catch with 703.6 million pounds--over 15 percent of the entire U.S. catch. California was next with 500.9 million pounds, followed by Alaska with 492.6 million, and Virginia with 465.8 million pounds. Six States (Alaska, California, Louisiana, Massachusetts, Mississippi, and Virginia) accounted for 65 percent of the total U.S. landings. Alaska led all States in ex-vessel value of landings with $56.0 million, followed by California with $50.7 million, Massachusetts, $40.2 million; and Louisiana, $34.7 million.

Principal Ports. San Pedro, Calif., again led all ports in volume of landings with 341.3 million pounds, followed by Pascagoula, Miss., with 283.6 million; Reedville, Va., 225.5 million; and Empire and Cameron, La., 217.5 and 213.6 million pounds, respectively.

Processed Fishery Products. The value of processed fishery products, $964.7 million, was 5 percent greater than in 1963. There were increases in breaded shrimp ($63.4 million), up $9.9 million; sticks and portions ($66.5 million), up nearly $1 million; canned tuna ($217.6 million), up $16.0 million; and canned salmon ($95.8 million), up $7.8 million. Three species, tuna, shrimp, and salmon, accounted for 53 percent of the value of processed products in 1964.

Menhaden. The catch of menhaden was 1,569,965,000 pounds--245.8 million pounds (14 percent) less than in the previous year. Despite this decline, menhaden accounted for 35 percent of the entire U.S. catch. Reduced catches occurred in the New England, Middle Atlantic, South Atlantic, and Gulf areas. Only in Chesapeake Bay was there an improvement over the previous year. The catch might have been greater in the South Atlantic States but for the stormy weather during the December fishery off North Carolina which curtailed fishing operations to a greater extent than is normal. The storms were so severe that one of the larger vessels was lost while fully loaded with fish.

The catch was made by 183 vessels--4 more than in the previous year. Larger and better equipped vessels, lighter seines, and more refrigeration made the fleet more efficient. Despite a large increase in imports of fish meal, prices remained high throughout the year.

Imports of fish meal and solubles in 1964, were a record 441,889 tons--61,787 tons more than in 1963. The menhaden industry was more concerned with the ability of the resource to withstand continued fishing pressure than with the heavy imports.

Salmon. The catch of salmon in 1964 was 352.3 million pounds valued at $56.0 million, up 20 percent in volume and 14 percent in value over the previous year. The year was eventful for the salmon industry in many ways--one of the more important events was the completion of 100 years of salmon canning. The Good Friday earthquake in Alaska disrupted plans for the season by damaging shore facilities. The run of red salmon in Bristol Bay was below expectations, and Alaska fishermen sold about 14 million pounds of fresh salmon, mostly pinks, to Japanese freezerships in Prince William Sound. It was an off-year cycle for Puget Sound sockeye. The voters of Oregon rejected by almost 3-to-1 a measure which would have outlawed commercial fishing on the Oregon side of the Columbia River.

Pink salmon were abundant along the Alaska coast for the fourth straight year. This resulted in a buildup in inventories of pink salmon and caused marketing difficulties. Promotional campaigns and reduced prices helped somewhat, though marketing was a problem throughout the year.

Tuna. Landings of tuna by the U.S. fleet at ports in continental United States and Hawaii during 1964 were 305.8 million pounds--down 15.8 million pounds or 5 percent from the previous year. Higher ex-vessel prices for raw tuna were somewhat improved over the previous year, and despite the decreased landings the value was only 2 percent lower. While yellowfin catches were up, catches of albacore, bluefin, and skipjack were less than in 1963. In New England, tuna landings were down 62 percent, with catches of both bluefin and skipjack off sharply.

Despite a decline in catch, the pack of tuna set a new record--17.7 million cases, up 7 percent over the previous year. The increase resulted from gains in landings by U.S. vessels in Puerto Rico, which are not included in domestic catch statistics, and in imports of frozen tuna.

Crabs. Landings of crabs in 1964 again set a record with a total of 270.4 million pounds--18.1 million pounds more than in 1963. The gain was in blue crabs in Maryland, Virginia, and North Carolina, and king crabs in Alaska. While the Alaska Good Friday earthquake damaged king crab shore installations and canning factories, floating equipment was moved in to process the catch. Greater quantities of king crab were frozen while the canned production remained static.

Dungeness crabs continued scarce in Washington, Oregon, and California, and the relatively new fishery in Alaska supplied over one-half the catch.

Blue crabs were taken in record volume in 1964, but the competition with other food products, the increased cost of hand labor to remove the meat, and higher priced raw material continued to plague the industry. The Bureau of Commercial Fisheries, recognizing the importance of mechanizing crab picking, sponsored research to design and build a machine that would satisfactorily remove the meat from the shell with very little hand work.

Shrimp. Shrimp landings were 211.8 million pounds valued at $70.4 million. Compared with 1963, the volume declined 28.7 million pounds and the value increased slightly.

Shrimp retained its position as the most valuable fishery in the United States. Ex-vessel prices held well, and fishermen had a good year. Inventories of frozen and canned shrimp appeared dangerously high at the beginning of the year, and the industry, with Bureau assistance, put on a well-planned advertising campaign. Stocks were reduced to normal by the end of the year.

Processed shrimp continued to gain in popularity. Peeled and deveined production (26.7 million pounds) increased 2.2 million pounds. Breaded shrimp (91.3 million pounds) was up 15.1 million pounds and $9.9 million. Both items set new records in quantity and value. Processed shrimp products in 1964 accounted for 17 percent of the total value of all manufactured fishery products, exceeded only by tuna.

U.S. firms continued to expand shrimp vessel and plant operations in the Caribbean area. Most of the catches were unloaded at U.S.-owned plants in countries near the fishing grounds, frozen, and exported to the United States.

Seizures by foreign countries for alleged violations of territorial waters continued to be a problem for the shrimp industry.

Groundfish. Landings of haddock (133.5 million pounds), the leading species of groundfish, increased 8 percent over the previous year. This was caused principally by vessels shifting from the ocean perch fishery to haddock and other mixed groundfish taken incidental to the haddock catch. Ocean perch landings (89.3 million pounds) declined--principally because of the fleet's shifting emphasis to other species. Scarcity of ocean perch on the usual fishing grounds contributed to the shift. Consumers seemed to prefer other fish and demand for ocean perch lessened. The productivity of the New England fleet increased with the addition of a new stern trawler, Canyon Prince.

Groundfish blocks and slabs for use in the production of fish sticks and portions were imported in record quantities in 1964. A new development was the well-received fish sandwich featured by one of the larger drive-in food chains. The sandwich was made from a portion cut from a fish block.

Flounders. Landings of flounders were 176.4 million pounds valued at $15.0 million--just short of the 1963 record catch of 176.8 million pounds. In New England, yellowtail (the principal species of flounders taken) reached a record high of 79.2 million pounds. The yellowtail fishery off southern New England has held up well over the past few years and has provided most of the flounders for filleting.

Herring, sea. Catches of sea herring in both the Atlantic (63.7 million pounds) and Pacific (52.2 million) were disappointing in 1964. In Maine, where herring are used for canning sardines, the catch was only 60.9 million pounds--far below the average for the previous decade of 137.3 million pounds. Wide fluctuations in the availability of these fish have created numerous problems for the industry. Imports of canned sardines rose in 1964 to 53.7 million pounds--a gain of 3.6 million compared with 1963.

Mackerel, Pacific and jack. A 2-month tieup of the mackerel fleet at the beginning of the year and a shorter one near the end of the year held the catch to 116.5 million pounds--19.2 million pounds less than in 1963. The catch was made almost entirely off southern California.

Oysters. Landings of oysters (60.5 million pounds) increased slightly over the previous year. Prices remained high, and consumer resistance prevailed. MSX, a mysterious and deadly killer of oysters, continued to plague the northern and middle range of the eastern oyster fishery.

Alewives. Landings of alewives were 55.0 million pounds--down 7.5 million pounds from the previous year. This fish is decreasing in popularity as a food item, and considerable quantities are used for pet food and reduction to meal and oil. The roe is still in demand, however, and is salted, canned, and sold fresh.

Halibut. U.S. landings of halibut, 26.3 million pounds (dressed weight), were 23 percent less than in 1963. Because of higher prices, the $5.9 million paid fishermen for the catch was down only 14 percent. The principal reason for the decline was a scarcity of fish which caused a number of halibut vessels to shift to salmon, sablefish, and crab fishing. The number of Canadian halibut vessels was less than in 1963, but this was offset somewhat by the addition of several new and larger vessels. Canadian fishermen took 33.6 million pounds (dressed weight) of halibut in 1964--10 percent less than in 1963.

The season was, for the most part, a disappointment and quotas for some of the areas were not filled.

GENERAL REVIEW

Whales. The six vessels in the whale fishery landed their catches at two whaling stations in California and one in Oregon. There were 274 whales taken--15 more than in the previous year.

Lobsters. Landings of northern lobsters were 31.0 million pounds--up 684,000 pounds from the previous year. The value increased from $16.8 million in 1963 to $19.9 million in 1964; and the average price per pound went from 55 cents in 1963 to 64 cents in 1964. In recent years, in an effort to supply the steadily increasing market demand for lobsters, an otter trawl fishery has grown up along the Continental shelf of the New England and Middle Atlantic coasts. The light catches, however, have failed to keep pace with the rising demand.

Scallops, sea. Landings of sea scallop meats were 16.9 million pounds valued at $9.2 million. The volume was 3.0 million pounds less than in 1963, but the value remained about the same. The Canadian fleet continued to fish the Georges Bank stocks and export most of the catches to the United States. Imports of scallops from Canada set a record with 15.5 million pounds.

Fishery Imports. Both the volume and value of imported fishery products reached new highs in 1964, chiefly because of record receipts of fresh herring, frozen tuna and groundfish blocks or slabs, and fish meal. The expanding fish meal industry in Peru provided the bulk of the gain in fish meal imports, which increased the U.S. supply of meal despite a sharp decline in the domestic production.

Scallops continued to enter the country in record quantities in 1964, providing 46 percent of the total supply compared with 8 percent in 1955.

Shrimp was imported in increasing quantities--169.5 million pounds (heads-off), 56 percent of the total 1964 U.S. supply. Comparative figures for 1950 were 40.2 million pounds--26 percent of the supply.

Imports of fresh and frozen tuna also set a new record. The pack from imported fish--186.1 million pounds--was 53 percent of the canned production. In 1950, the pack from imported fish was only 20.8 million pounds--12 percent.

There were record imports of groundfish and Atlantic ocean perch fillets (including blocks)--246.6 million pounds in 1964 compared with 231.8 million in 1963. U.S. production has declined steadily from the record 148.8 million pounds in 1951 (63 percent of the combined domestic production and imports) to 75.2 million in 1964--only 23 percent of the supply.

U.S. Supply. A record 7.5 billion pounds of imported fishery products (live-weight basis), added to the domestic catch of 4.5 billion pounds, brought the total supply to a peak of 12.0 billion pounds. Imports were 62 percent of the total. The domestic catch (4.5 billion pounds) was about 500.0 million pounds less than the 1960-64 average. Domestic edible fish and shellfish declined to 2.5 billion pounds--the lowest since 1961--and only 51 percent of the total supply of edible fishery products.

World Catch. In 1964, the world catch of fish, crustaceans, mollusks, etc., was a record 113.8 billion pounds--11.5 billion pounds more than in 1963. Peru, for the third consecutive year, was world leader in volume. The United States remained in fifth place.

Detailed summaries of the catch and operating unit data for the United States have been previously published in Current Fishery Statistics No. 4098.

Summaries of operating unit and catch statistics for each region of the United States have been published in the Current Fishery Statistics series of bulletins. "Fisheries of the United States," a preliminary review available each April, contains current information on many aspects of the fisheries, such as domestic and world catch, per capita consumption, price indexes, foreign trade, supplies, etc.; and comparative data for previous years. This publication may be obtained from the Office of Information, U.S. Fish and Wildlife Service, Washington, D.C. 20240.

GENERAL REVIEW

CATCH OF FISH AND SHELLFISH, 1945-64

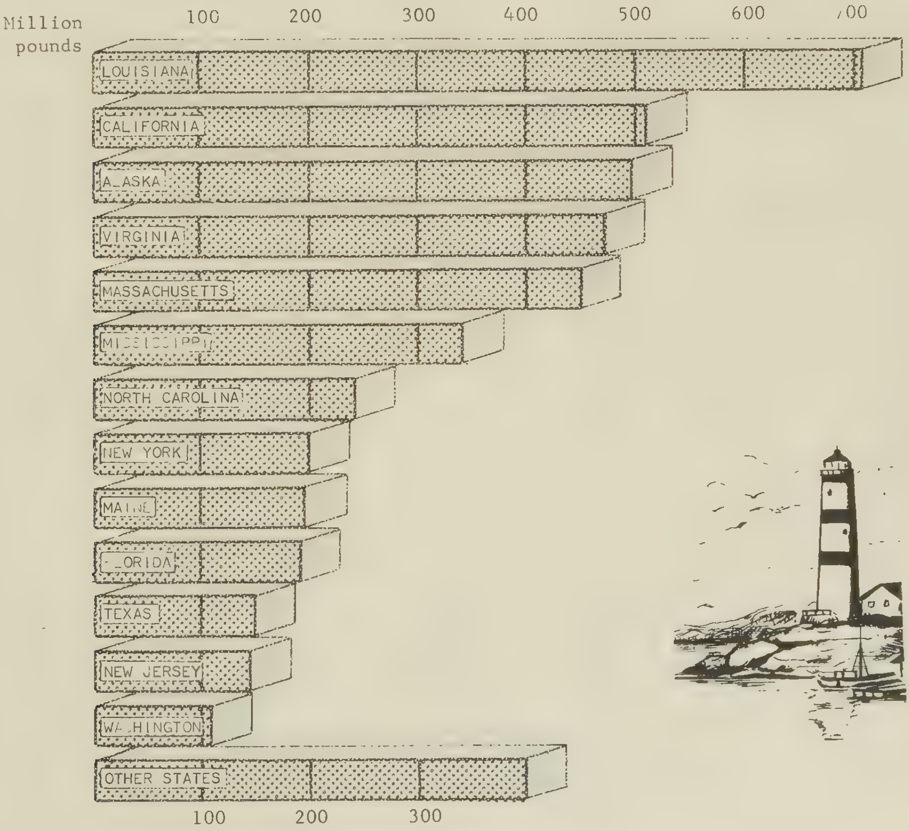
(ROUND WEIGHT BASIS)

YEAR	CATCH FOR HUMAN FOOD	CATCH FOR INDUSTRIAL PRODUCTS 1/	TOTAL		AVERAGE PRICE PER POUND
	MILLION POUNDS	MILLION POUNDS	MILLION POUNDS	MILLION DOLLARS	CENTS
1945	3,167	1,431	4,598	270	5.87
1946	3,049	1,418	4,467	313	7.01
1947	3,020	1,329	4,349	312	7.16
1948	3,146	1,367	4,513	371	8.22
1949	3,305	1,499	4,804	343	7.13
1950	3,307	1,594	4,901	347	7.09
1951	3,048	1,385	4,433	365	8.23
1952	2,778	1,654	4,432	364	8.20
1953	2,519	1,968	4,487	356	7.94
1954	2,705	2,057	4,762	359	7.55
1955	2,579	2,230	4,809	339	7.05
1956	2,690	2,578	5,268	372	7.06
1957	2,475	2,314	4,789	354	7.39
1958	2,651	2,096	4,747	373	7.86
1959	2,369	2,753	5,122	346	6.76
1960	2,498	2,444	4,942	354	7.15
1961	2,490	2,697	5,187	362	6.98
1962	2,540	2,814	5,354	396	7.40
1963	2,556	2,291	4,847	377	7.78
1964	2,497	2,044	4,541	389	8.57

1/ MANUFACTURED INTO MEAL, OIL, FISH SOLUBLES, HOMOGENIZED CONDENSED FISH, SHELL PRODUCTS, AND USED AS BAIT AND ANIMAL FOOD.

NOTE:--DOES NOT INCLUDE DATA ON THE HAWAII CATCH PRIOR TO 1948.

RELATIVE VOLUME OF THE CATCH BY STATES, 1964



SUMMARY OF CATCH, 1964

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

REGION	FISH		SHELLFISH, ETC.		WHALE PRODUCTS		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND	621	34	61	34	-	-	682	68
MIDDLE ATLANTIC	315	9	55	12	-	-	370	21
CHESAPEAKE	424	10	113	26	-	-	537	36
SOUTH ATLANTIC	261	9	75	12	-	-	336	21
GULF	1,085	26	233	73	-	-	1,318	99
PACIFIC	988	111	153	17	11	1	1,152	129
GREAT LAKES	57	5	-	-	-	-	57	5
MISSISSIPPI RIVER AND TRIBUTARIES	66	6	11	1	-	-	77	7
HAWAII	12	3	(1)	(1)	-	-	12	3
TOTAL	3,829	213	701	175	11	1	4,541	389

1/ LESS THAN 500,000 POUNDS OR $500,000.

SUMMARY OF OPERATING UNITS, 1964

ITEM	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	4,058	2,990	3,898	3,442	11,744
ON BOATS AND SHORE	16,136	6,128	14,656	7,839	13,427
TOTAL	20,194	9,118	18,554	11,281	25,171
VESSELS:					
MOTOR	721	608	1,184	1,108	3,582
GROSS TONNAGE	47,084	33,293	27,822	42,230	151,665
SAIL	-	-	61	-	-
GROSS TONNAGE	-	-	687	-	-
TOTAL VESSELS	721	608	1,245	1,108	3,582
TOTAL GROSS TONNAGE	47,084	33,293	28,509	42,230	151,665
BOATS:					
MOTOR	10,128	4,015	9,947	5,297	10,149
OTHER	465	299	996	704	595
GEAR:					
HAUL SEINES	20	78	286	112	114
STOP NETS AND SEINES	123	4	-	-	-
PURSE SEINES AND LAMPARA NETS:					
HERRING	6	-	-	-	-
MACKEREL AND SARDINE	11	-	-	-	-
MENHADEN	-	57	41	63	76
TUNA	8	6	5	-	-
OTHER	3	24	-	2	6
BAG NETS	15	-	-	33	-
BEAM TRAWLS	-	3	-	-	-
OTTER TRAWLS:					
CRAB	-	-	-	432	5
FISH	593	337	83	96	123
LOBSTER	36	39	-	-	-
SHRIMP	28	-	-	2,214	9,178
WEIRS	75	5	-	-	-
POUND NETS	50	147	3,996	613	40
FLOATING TRAPS	44	-	-	-	-
FYKE AND HOOP NETS	5	277	1,206	400	11,539
POTS AND TRAPS:					
CONCH	939	50	-	-	-
CRAB	1,902	6,074	184,595	69,030	91,119
CRAWFISH	-	-	-	-	8,980
EEL	1,010	1,363	7,757	750	-
FISH	-	20,104	4,646	15,461	660
LOBSTER	894,653	9,580	-	40,100	73,553
TURTLE	-	129	523	80	-
BOX TRAPS	5	-	-	-	-
SLAT TRAPS	-	-	2	-	-
GILL NETS:					
ANCHOR, SET OR STAKE	30	144	2,898	2,483	256
DRIFT	83	99	1,108	596	14
RUNAROUND	-	29	-	452	1,123

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1964 - Continued

ITEM	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
TRAMMEL NETS.	-	-	-	11	634
HOOKS AND BAITS	541,964	196,674	930,230	1,244,368	1,239,798
DIP NETS.	387	-	374	1,976	29,295
PUSH NETS	-	6	-	-	-
CAST NETS	-	-	-	19	21
HARPOONS.	68	8	-	-	-
SPEARS.	12	18	-	125	268
SCRAPES	-	-	579	-	-
DREDGES:					
CLAM.	78	113	247	21	-
CRAB.	-	24	366	-	-
MUSSEL.	3	1	-	-	-
OYSTER.	41	110	631	164	1,381
SCALLOP	1,345	1,780	4	80	57
OTHER	-	8	-	-	-
TONGS AND OYSTER GRABS. .	1,109	2,984	8,198	374	2,516
RAKES	1,738	2,379	545	269	1
HOES.	3,133	14	-	-	-
FORKS	22	-	-	-	-
BRUSH TRAPS	-	-	-	-	28,275
GRABS, FROG	-	-	-	-	46
HOOKS, SPONGE	-	-	-	3	46
DIVING OUTFITS.	83	-	-	-	12

ITEM	PACIFIC	GREAT LAKES	MISSISSIPPI RIVER AND TRIBUTARIES	HAWAII	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	15,767	836	12	233	40,705
ON BOATS AND SHORE. . . .	17,332	1,697	9,445	510	87,180
TOTAL	33,099	2,533	9,457	743	127,875
VESSELS:					
MOTOR	4,567	1/ 386	1/ 4	57	11,747
GROSS TONNAGE	141,188	7,099	55	1,722	414,651
SAIL.	-	-	-	-	61
GROSS TONNAGE	-	-	-	-	687
TOTAL VESSELS	4,567	1/ 386	1/ 4	57	11,808
TOTAL GROSS TONNAGE .	141,188	7,099	55	1,722	415,338
BOATS:					
MOTOR	13,276	1,089	7,929	350	60,945
OTHER	267	89	248	24	3,659
GEAR:					
HAUL SEINES	119	91	253	(2)	1,054
STOP NETS AND SEINES. . .	-	-	-	-	123
PURSE SEINES AND LAMPARA NETS:					
ANCHOVY	24	-	-	-	24
HERRING	19	-	-	-	25
MACKEREL AND SARDINE. .	84	-	-	-	95
MENHADEN.	-	-	-	-	183
SALMON.	1,439	-	-	-	1,439
SQUID	21	-	-	-	21
TUNA.	105	-	-	-	116
OTHER	12	-	-	-	47
BAG NETS.	-	-	-	(2)	48
BEAM TRAWLS	20	-	-	-	23
OTTER TRAWLS:					
CRAB.	-	-	-	-	437
FISH.	225	17	6	-	1,479
LOBSTER	-	-	-	-	75
SHRIMP.	40	-	-	-	11,094
WEIRS	1	-	55	-	135
POUND NETS.	4	308	17	-	5,175
TRAP NETS	-	1,664	164	-	1,828
FLOATING TRAPS.	4	-	-	-	46
FYKE AND HOOP NETS. . . .	-	455	57,435	-	71,24[illegible]
POTS AND TRAPS:					
CONCH	-	-	-	-	989
CRAB.	112,829	-	-	(2)	465,549
CRAWFISH.	275	-	20,980	-	21,255

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1964 - Continued

ITEM	PACIFIC	GREAT LAKES	MISSISSIPPI RIVER AND TRIBUTARIES	HAWAII	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
GEAR - CONTINUED:					
POTS AND TRAPS - CONTINUED:					
EEL.	-	-	-	(2)	19,860
FISH	50	-	4,413	(2)	45,094
LOBSTER.	13,015	-	-	(2)	1,030,901
OCTOPUS.	230	-	-	(2)	230
SHRIMP	250	-	560	-	810
TURTLE	-	-	-	-	732
BOX TRAPS.	-	-	-	-	5
WIRE BASKETS	-	-	2,548	-	2,548
SLAT TRAPS	-	-	-	-	2
GILL NETS:					
ANCHOR, SET OR STAKE . .	3,002	1,501	7,100	(2)	17,414
DRIFT.	5,087	-	-	-	6,987
RUNAROUND.	-	-	-	-	1,604
TRAMMEL NETS	31	-	4,025	-	4,701
HOOKS AND BAITS.	900,893	84,701	4,182,632	(2)	9,294,190
DIP NETS	174	4	572	-	32,782
BRAIL OR SCOOP NETS. . . .	85	-	-	-	85
LIFT NETS.	-	-	-	(2)	-
REEF NETS.	63	-	-	-	63
PUSH NETS.	-	-	-	-	6
WHEELS	6	-	-	-	6
CAST NETS.	-	-	-	(2)	40
HARPOONS	16	-	-	-	92
SPEARS	-	-	-	(2)	423
SCRAPES.	-	-	-	-	579
DREDGES:					
CLAM	4	-	-	-	463
CRAB	-	-	-	-	390
MUSSEL	-	-	-	-	4
OYSTER	81	-	-	-	2,408
SCALLOP.	-	-	-	-	3,266
OTHER.	-	-	-	-	8
TONGS AND OYSTER GRABS . .	39	-	-	-	15,220
RAKES.	-	-	-	-	4,932
HOES	-	-	-	-	3,147
FORKS.	-	-	-	-	22
SHOVELS.	1,050	-	-	-	1,050
BRUSH TRAPS.	-	-	-	-	28,275
CROWFOOT BARS.	-	-	987	-	987
GRABS, FROG.	-	-	198	-	244
HOOKS, SPONGE.	-	-	-	-	49
DIVING OUTFITS	150	-	-	-	245

1/ DATA ON THE 4 VESSELS OPERATED IN LAKE WINNEBAGO ARE INCLUDED IN MISSISSIPPI RIVER AND TRIBUTARIES.

2/ DATA ON THE NUMBER OF GEAR OPERATED IN HAWAII ARE NOT AVAILABLE.

VESSELS OBTAINING DOCUMENTS AS FISHING CRAFT, 1955-64

YEAR	FIRST DOCUMENTATION	REDOCUMENTATION	TOTAL
	NUMBER	NUMBER	NUMBER
1955	418	23	441
1956	521	17	538
1957	601	18	619
1958	684	29	713
1959	479	34	513
1960	408	24	432
1961	410	20	430
1962	352	16	368
1963	569	21	590
1964	488	15	503

U.S. CATCH BY WATERS, FISHERMEN, CRAFT, PLANTS AND EMPLOYMENT, BY STATES, 1964

STATE	MARINE WATERS AND COASTAL RIVERS		LAKES 1/		MISSISSIPPI RIVER AND TRIBUTARIES		TOTAL		FISHERMEN	FISHING CRAFT		WHOLESALE AND MANUFACTURING		
										VESSELS	BOATS	PLANTS	EMPLOYEES	
													AVERAGE FOR SEASON	AVERAGE FOR YEAR
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ALABAMA	15,067	3,975	-	-	4,579	829	19,646	4,804	2,267	251	1,211	71	1,216	727
ALASKA	492,614	56,016	-	-	-	-	492,614	56,016	17,136	2,030	8,240	173	7,648	2,500
ARIZONA	-	-	-	-	12	2	12	2	(2)	(2)	(2)	1	50	40
ARKANSAS	-	-	-	-	4,031	495	4,031	495	1,069	-	910	45	68	68
CALIFORNIA	500,868	50,659	-	-	-	-	500,868	50,659	8,148	1,508	1,869	188	9,411	7,126
COLORADO	-	-	-	-	168	27	168	27	(2)	(2)	(2)	-	-	-
CONNECTICUT	4,650	1,113	-	-	-	-	4,650	1,113	515	51	265	10	79	70
DELAWARE	33,839	684	-	-	-	-	33,839	684	631	34	210	21	505	310
FLORIDA	177,980	29,496	9,036	1,291	-	-	187,016	30,787	11,251	1,495	5,296	448	5,710	4,712
GEORGIA	18,338	2,973	-	-	-	-	18,338	2,973	1,740	333	667	54	2,775	2,034
HAWAII	12,685	2,848	-	-	-	-	12,685	2,848	743	57	374	17	327	275
IDAHO	-	-	-	-	1,231	66	1,231	66	(2)	(2)	(2)	-	-	-
ILLINOIS	-	-	645	112	6,776	633	7,421	745	607	5	498	93	1,055	889
INDIANA	-	-	11	2	1,840	130	1,851	132	189	-	72	18	109	105
IOWA	-	-	-	-	3,737	300	3,737	300	525	-	546	33	402	334
KANSAS	-	-	-	-	39	11	39	11	13	-	13	5	61	59
KENTUCKY	-	-	-	-	1,416	209	1,416	209	652	-	368	21	126	126
LOUISIANA	696,140	33,585	-	-	7,444	1,099	703,584	34,684	11,888	1,602	5,888	237	5,427	3,370
MAINE	192,575	21,958	-	-	-	-	192,575	21,958	8,567	140	5,711	252	5,215	2,813
MARYLAND	70,828	11,729	-	-	-	-	70,828	11,729	9,271	536	6,267	272	5,042	4,385
MASSACHUSETTS	446,495	40,184	-	-	-	-	446,495	40,184	9,347	489	3,304	234	6,118	5,006
MICHIGAN	-	-	19,769	2,522	-	-	19,769	2,522	1,251	213	568	66	637	459
MINNESOTA	-	-	5,199	242	11,147	723	16,346	965	823	5	442	26	270	152
MISSISSIPPI	331,898	8,045	-	-	2,796	326	334,694	8,371	3,687	585	1,589	80	1,807	1,249
MISSOURI	-	-	-	-	353	46	353	46	270	-	267	36	254	234
MONTANA	-	-	-	-	237	16	237	16	11	-	10	-	-	-
NEBRASKA	-	-	-	-	281	33	281	33	136	-	136	5	117	97
NEW HAMPSHIRE	1,209	601	-	-	-	-	1,209	601	402	-	184	13	102	86
NEW JERSEY	139,362	9,423	-	-	-	-	139,362	9,423	3,395	344	1,479	112	2,383	1,883
NEW MEXICO	-	-	-	-	59	16	59	16	(2)	(2)	(2)	-	-	-
NEW YORK	197,022	10,790	446	90	-	-	197,468	10,880	5,393	280	2,661	330	3,519	3,293
NORTH CAROLINA	238,579	8,023	-	-	-	-	238,579	8,023	5,551	481	2,795	161	2,582	1,242
NORTH DAKOTA	-	-	-	-	488	33	488	33	25	-	5	2	20	16
OHIO	-	-	11,230	1,008	-	-	11,230	1,008	508	62	286	49	577	428
OKLAHOMA	-	-	-	-	699	87	699	87	134	-	134	12	66	66
OREGON	57,206	7,030	-	-	-	-	57,206	7,030	2,586	623	982	60	2,257	1,540
PENNSYLVANIA	-	-	817	91	-	-	817	91	32	12	5	53	1,210	891
RHODE ISLAND	36,928	3,740	-	-	-	-	36,928	3,740	1,670	102	1,129	30	328	273
SOUTH CAROLINA	21,723	3,001	-	-	-	-	21,723	3,001	1,528	185	824	71	987	561
SOUTH DAKOTA	-	-	-	-	3,208	188	3,208	188	651	-	30	4	13	12
TENNESSEE	-	-	-	-	9,766	1,148	9,766	1,148	1,267	-	1,263	35	103	103
TEXAS	145,070	29,528	-	-	1,051	123	146,121	29,651	6,493	1,479	1,531	174	5,309	3,947
UTAH	-	-	-	-	2,960	141	2,960	141	(2)	(2)	(2)	-	-	-
VIRGINIA	465,768	24,219	-	-	-	-	465,768	24,219	9,349	723	4,679	350	5,242	3,069
WASHINGTON	100,924	15,632	-	-	-	-	100,924	15,632	7,728	1,250	2,575	179	4,160	2,107
WISCONSIN	-	-	18,570	1,505	12,520	690	31,090	2,195	1,289	117	767	80	689	562
WYOMING	-	-	-	-	293	12	293	12	2	-	2	-	-	-
TOTAL	4,397,768	375,252	65,723	6,863	77,131	7,383	4,540,622	389,498	3/127,875	3/11,808	3/64,604	4,121	83,976	57,219

1/ INCLUDES THE CATCH OF THE GREAT LAKES, THE INTERNATIONAL LAKES OF MINNESOTA, AND THE INLAND LAKES OF FLORIDA. 2/ DATA NOT AVAILABLE. 3/ EXCLUSIVE OF DUPLICATION.

SUMMARY OF U. S. FISHING VESSELS, BY TONNAGE GROUPS, 1964

GROSS TONNAGE	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE 1/	SOUTH ATLANTIC	GULF	PACIFIC	GREAT LAKES 2/	HAWAII	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
5 - 9	36	51	758	218	222	929	65	1	2,272
10 - 19	127	139	278	247	819	1,873	195	15	3,665
20 - 29	89	93	65	156	452	667	80	17	1,574
30 - 39	80	71	27	170	451	374	27	10	1,130
40 - 49	57	53	14	138	429	267	20	8	899
50 - 59	46	42	13	59	293	109	2	4	521
60 - 69	44	30	6	42	552	54	-	1	697
70 - 79	48	31	15	13	218	36	1	1	326
80 - 89	22	8	3	3	49	32	-	-	112
90 - 99	22	1	2	2	11	26	-	-	63
100 - 109	16	5	2	1	6	20	-	-	46
110 - 119	32	14	6	1	2	16	-	-	60
120 - 129	14	4	4	3	2	16	-	-	36
130 - 139	12	1	2	-	2	11	-	-	27
140 - 149	10	5	7	3	6	7	-	-	29
150 - 159	14	3	3	-	1	2	-	-	19
160 - 169	8	1	1	-	6	11	-	-	27
170 - 179	6	5	1	1	5	3	-	-	20
180 - 189	3	4	3	2	7	9	-	-	25
190 - 199	5	29	12	17	13	16	-	-	66
200 - 209	1	-	-	-	-	-	-	-	1
210 - 219	3	-	-	-	3	2	-	-	8
220 - 229	3	4	1	3	5	1	-	-	14
230 - 239	3	3	1	2	4	2	-	-	12
240 - 249	3	-	2	4	1	-	-	-	9
250 - 259	2	1	5	7	3	2	-	-	15
260 - 269	3	1	5	4	3	3	-	-	16
270 - 279	-	-	-	-	-	5	-	-	5
280 - 289	-	2	1	2	-	1	-	-	4
290 - 299	2	1	1	2	1	3	-	-	7
300 - 309	2	2	-	2	-	2	-	-	6
310 - 319	2	2	-	1	3	4	-	-	10
320 - 329	2	-	1	1	1	2	-	-	6
330 - 339	-	-	-	-	-	2	-	-	2
340 - 349	-	-	-	-	-	4	-	-	4
350 - 359	-	-	-	-	-	6	-	-	6
360 - 369	-	-	-	-	-	5	-	-	5
370 - 379	-	-	1	1	-	2	-	-	3
380 - 389	-	1	1	-	-	3	-	-	3
390 - 399	-	-	-	-	-	2	-	-	2
400 - 409	-	-	-	-	-	1	-	-	1
410 - 419	-	-	-	-	1	3	-	-	4
420 - 429	-	-	-	-	-	2	-	-	2
430 - 439	-	-	-	-	-	4	-	-	4
440 - 449	-	-	-	-	-	3	-	-	3
450 - 459	1	-	-	1	-	2	-	-	4
460 - 469	-	-	-	-	1	2	-	-	3
470 - 479	2	-	-	-	5	12	-	-	17
480 - 489	-	-	1	-	2	2	-	-	5
490 - 499	-	-	-	-	-	1	-	-	1
520 - 529	-	-	-	-	-	1	-	-	1
530 - 539	1	1	1	1	-	-	-	-	1
540 - 549	-	-	1	1	-	-	-	-	1
580 - 589	-	-	-	-	-	1	-	-	1
600 - 609	-	-	-	-	1	-	-	-	1
610 - 619	-	-	-	-	1	-	-	-	1
630 - 639	-	-	-	-	-	1	-	-	1
640 - 649	-	-	-	-	1	-	-	-	1
680 - 689	-	-	1	-	-	-	-	-	1
720 - 729	-	-	-	-	-	1	-	-	1
800 - 809	-	-	-	-	-	1	-	-	1
810 - 819	-	-	-	-	-	1	-	-	1
TOTAL VESSELS. . . .	721	608	1,245	1,108	3,582	4,567	390	57	11,808
TOTAL GROSS TONNAGE.	47,084	33,293	28,509	42,230	151,665	141,188	7,154	1,722	415,338

1/ INCLUDES SAILING VESSELS.

2/ INCLUDES 4 VESSELS OPERATED IN LAKE WINNEBAGO.

LENGTH DISTRIBUTION OF U. S. FISHING VESSELS, 1964

LENGTH IN FEET	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE 1/	SOUTH ATLANTIC	GULF	PACIFIC	GREAT LAKES 2/	HAWAII	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
22.	-	-	-	-	-	1	-	-	1
23.	1	-	-	-	-	-	-	-	1
24.	-	-	2	1	-	-	-	-	3
25.	-	-	-	1	2	3	4	-	10
26.	-	-	1	10	5	19	6	-	40
27.	1	-	-	10	5	65	5	-	86
28.	4	6	2	16	8	269	9	-	314
29.	5	4	-	10	18	205	8	-	250
30.	7	7	-	21	26	196	9	-	266
31.	4	1	5	27	33	278	11	-	357
32.	10	12	13	42	50	201	32	-	356
33.	14	6	44	35	60	247	32	-	437
34.	16	14	73	43	64	219	29	-	451
35.	11	9	109	39	66	207	19	1	460
36.	14	19	114	46	78	240	36	-	544
37.	15	12	156	51	93	220	40	-	583
38.	10	22	122	49	88	185	19	-	493
39.	12	26	94	33	84	168	26	2	441
40.	11	16	84	29	74	149	10	4	374
41.	10	12	45	37	94	134	10	1	337
42.	9	10	35	29	82	125	10	-	299
43.	9	20	25	30	89	127	11	2	304
44.	11	14	28	41	96	106	5	1	293
45.	12	9	24	29	102	96	10	2	274
46.	16	13	17	26	98	66	8	2	232
47.	18	10	18	31	86	67	11	1	232
48.	10	5	5	35	124	75	7	3	249
49.	9	12	15	31	112	234	5	1	404
50.	12	11	14	46	138	36	5	4	247
51.	16	17	10	43	143	30	3	1	232
52.	9	8	17	13	86	19	4	2	148
53.	9	10	5	20	115	25	1	-	174
54.	10	11	7	22	77	19	-	2	132
55.	16	11	14	26	141	16	-	2	206
56.	23	15	7	11	117	28	1	1	196
57.	15	10	13	10	46	15	1	1	100
58.	14	21	11	24	137	23	2	1	212
59.	7	6	5	5	102	42	-	1	164
60.	11	12	5	5	67	30	-	1	126
61.	16	27	7	31	327	20	-	1	403
62.	6	11	5	6	98	25	-	1	146
63.	8	7	2	4	43	13	-	-	75
64.	9	7	1	3	44	11	1	-	70
65.	8	4	2	3	87	19	-	2	123
66.	9	3	1	6	12	15	-	2	45
67.	5	4	-	1	19	8	-	2	38
68.	4	6	-	5	21	8	-	-	40
69.	15	1	1	-	9	9	-	2	37
70.	16	7	2	3	8	14	-	1	43
71.	8	6	2	3	10	13	-	3	39
72.	18	5	1	1	-	11	-	4	35
73.	10	5	-	-	1	8	-	1	23
74.	7	5	2	1	3	3	-	-	18
75.	9	-	1	-	3	19	-	-	32
76.	6	5	2	-	1	4	-	1	16
77.	8	7	1	1	2	6	-	-	22
78.	5	1	1	-	2	13	-	-	22
79.	11	6	4	-	-	12	-	-	28
80.	6	2	-	3	3	6	-	1	20
81.	3	-	-	-	2	5	-	-	10
82.	3	1	1	-	-	10	-	-	13
83.	7	1	1	-	-	2	-	-	10
84.	8	1	-	-	-	3	-	-	12
85.	15	6	4	1	1	2	-	-	23
86.	5	-	-	-	-	2	-	-	7
87.	4	-	-	-	-	4	-	-	8
88.	11	2	1	-	-	1	-	-	13
89.	12	1	1	-	-	5	-	-	18

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LENGTH DISTRIBUTION OF U. S. FISHING VESSELS, 1964 - Continued

LENGTH IN FEET	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE 1/	SOUTH ATLANTIC	GULF	PACIFIC	GREAT LAKES 2/	HAWAII	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
90	7	2	2	-	3	4	-	-	15
91	4	2	1	1	2	2	-	-	9
92	10	4	2	-	1	-	-	-	11
93	1	-	-	-	-	-	-	-	1
94	3	-	-	-	1	5	-	-	9
95	3	-	-	-	2	1	-	-	6
96	2	1	1	-	-	5	-	-	7
97	2	-	-	-	-	1	-	-	3
98	2	-	-	-	-	-	-	-	2
99	1	1	1	1	-	1	-	-	2
100	2	1	-	-	2	4	-	-	9
101	2	2	1	1	-	2	-	-	5
102	8	-	1	-	-	2	-	-	10
103	3	-	-	-	1	1	-	-	5
104	8	8	5	1	2	-	-	-	16
105	3	3	2	1	8	-	-	-	12
106	3	3	1	-	-	3	-	-	8
107	-	3	3	1	-	2	-	-	9
108	-	-	-	-	1	-	-	-	1
109	1	1	-	-	2	1	-	-	5
110	1	-	-	-	-	1	-	-	2
111	-	-	-	-	1	2	-	-	3
112	-	1	-	-	2	1	-	-	4
113	-	-	2	1	-	-	-	-	2
114	5	-	-	-	-	5	-	-	10
115	-	-	-	-	-	3	-	-	3
116	-	1	3	1	1	1	-	-	5
117	-	-	1	1	-	11	-	-	12
118	2	1	1	-	-	7	-	-	11
119	3	-	-	-	1	10	-	-	12
120	-	5	2	-	1	1	-	-	9
121	-	3	1	-	-	3	-	-	7
122	-	-	2	1	1	-	-	-	4
123	-	-	-	-	-	1	-	-	1
124	2	2	3	1	8	3	-	-	16
125	1	7	8	11	8	3	-	-	26
126	1	2	6	8	3	2	-	-	16
127	-	2	3	3	-	2	-	-	7
128	-	1	1	-	-	1	-	-	3
129	-	1	1	-	-	2	-	-	4
130	-	11	2	5	1	2	-	-	15
131	3	-	-	-	1	2	-	-	6
132	-	-	1	-	-	1	-	-	2
133	3	-	-	-	-	2	-	-	5
134	-	3	-	1	1	1	-	-	5
135	-	-	-	-	3	-	-	-	3
136	-	-	-	-	-	1	-	-	1
138	1	-	-	-	-	-	-	-	1
139	-	-	1	1	2	3	-	-	5
140	-	4	-	4	1	-	-	-	5
141	-	1	-	1	2	-	-	-	3
142	-	1	1	3	2	-	-	-	5
143	-	1	-	-	-	-	-	-	1
145	-	-	-	-	1	-	-	-	1
146	-	4	1	5	3	-	-	-	6
147	-	3	-	3	-	-	-	-	3
150	-	-	-	-	6	-	-	-	6
152	-	-	-	1	-	1	-	-	2
153	-	-	-	-	1	1	-	-	2
156	-	-	1	-	-	1	-	-	2
160	-	-	-	-	2	-	-	-	2
166	1	1	2	2	-	-	-	-	2
168	-	-	-	-	-	1	-	-	1
171	-	-	-	-	-	1	-	-	1
172	-	-	-	-	-	1	-	-	1
193	-	-	-	-	1	-	-	-	1
194	-	-	-	-	1	-	-	-	1
195	-	-	-	-	1	-	-	-	1
TOTAL	721	608	1,245	1,108	3,582	4,567	390	57	11,808

1/ INCLUDES SAILING VESSELS.

2/ INCLUDES 4 VESSELS OPERATED IN LAKE WINNEBAGO.

AGE DISTRIBUTION OF U. S. VESSELS ENGAGED IN COMMERCIAL FISHING, 1865-1964

YEAR BUILT	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE 1/	SOUTH ATLANTIC	GULF	PACIFIC	GREAT LAKES 2/	HAWAII	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
1865	-	-	-	-	1	-	-	-	1
1872	-	1	-	-	-	-	-	-	1
1873	-	1	-	-	-	-	-	-	1
1875	1	1	1	-	-	-	-	-	1
1876	-	3	-	-	-	-	-	-	3
1877	-	-	1	-	-	-	-	-	1
1882	-	-	2	-	-	-	-	-	2
1883	-	2	1	-	-	-	-	-	3
1884	1	1	1	-	1	-	-	-	4
1886	-	1	1	-	-	-	-	-	2
1887	-	2	-	-	-	1	-	-	3
1888	-	1	-	-	1	1	-	-	3
1889	-	-	2	-	-	-	-	-	2
1890	-	-	1	-	-	-	-	-	1
1891	-	-	1	-	1	-	-	-	2
1892	-	-	1	-	1	-	-	-	2
1893	-	1	2	-	1	1	-	-	5
1894	-	-	-	1	-	1	-	-	2
1896	-	-	3	1	1	-	-	-	5
1897	-	-	2	1	-	-	-	-	2
1898	-	-	2	1	-	-	-	-	3
1899	-	1	2	1	-	-	-	-	4
1900	1	2	3	1	3	2	-	-	11
1901	1	4	11	1	3	1	-	-	21
1902	3	4	4	-	-	1	-	-	12
1903	2	3	3	1	4	2	-	-	15
1904	1	2	8	-	3	-	-	-	14
1905	-	3	6	-	8	2	-	-	19
1906	2	7	5	-	4	2	-	-	20
1907	2	3	3	-	1	13	-	-	22
1908	-	1	5	-	-	7	1	-	14
1909	-	4	4	-	4	11	-	-	23
1910	2	7	5	1	-	13	-	-	28
1911	1	7	8	2	3	19	1	-	40
1912	-	3	6	-	6	41	1	-	57
1913	-	4	8	2	3	34	1	-	52
1914	3	1	6	1	3	34	1	-	49
1915	-	1	4	3	6	53	1	-	68
1916	-	2	3	1	2	27	1	-	36
1917	6	8	8	1	5	93	-	-	112
1918	6	6	5	-	6	69	1	-	91
1919	1	4	5	-	-	51	-	-	61
1920	1	5	7	3	5	79	-	-	98
1921	3	2	1	3	2	23	2	-	36
1922	6	4	7	4	5	17	1	-	42
1923	5	6	13	7	12	20	1	-	63
1924	11	9	13	5	25	42	2	-	106
1925	17	5	14	7	21	65	2	-	127
1926	12	4	11	5	16	81	6	2	137
1927	7	9	11	12	13	98	4	1	151
1928	18	7	9	2	28	121	4	4	193
1929	20	10	10	6	28	92	7	3	175
1930	19	15	9	16	21	65	7	2	152
1931	15	8	12	13	20	41	4	-	113
1932	9	3	8	9	11	20	2	-	62
1933	6	2	6	6	8	12	6	-	46
1934	8	4	18	10	14	28	7	1	90
1935	4	2	15	13	24	68	20	1	147
1936	16	9	22	13	44	54	21	-	177
1937	20	10	18	11	59	55	13	1	180
1938	10	9	20	15	54	68	13	2	187
1939	18	6	16	15	37	98	7	-	194
1940	15	8	30	7	38	96	12	1	205
1941	32	11	23	16	40	100	8	-	218
1942	24	20	22	27	42	126	5	1	251
1943	30	28	24	32	60	118	7	1	271
1944	51	26	38	43	96	209	17	1	450
1945	47	37	43	35	91	234	28	2	496
1946	43	40	63	70	128	248	37	10	620
1947	35	27	38	63	147	227	32	14	562
1948	16	13	48	40	178	159	28	-	466
1949	17	20	40	62	98	175	11	2	409

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

AGE DISTRIBUTION OF U. S. VESSELS ENGAGED IN COMMERCIAL FISHING, 1865-1964 - Continued

YEAR BUILT	NEW ENGLAND	MIDDLE ATLANTIC	CHESA-PEAKE 1/	SOUTH ATLANTIC	GULF	PACIFIC	GREAT LAKES 2/	HAWAII	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
1950	11	20	34	26	119	117	15	1	334
1951	12	14	23	38	110	150	8	-	334
1952	20	14	31	23	117	158	8	-	358
1953	9	15	34	24	235	89	4	3	400
1954	8	10	40	45	224	57	3	-	369
1955	7	8	25	39	89	91	5	-	246
1956	11	13	65	52	123	68	5	1	317
1957	9	15	49	55	209	71	3	-	378
1958	5	7	43	55	268	52	9	-	409
1959	12	7	53	43	107	54	5	-	266
1960	5	7	30	15	82	56	1	-	193
1961	12	5	20	21	78	71	1	1	201
1962	9	4	12	20	83	72	-	-	188
1963	10	10	17	31	154	70	1	1	274
1964	9	5	10	13	129	37	-	1	200
UNKNOWN.	4	4	17	19	19	36	-	-	99
TOTAL	721	608	1,245	1,108	3,582	4,567	390	57	11,808

1/ INCLUDES SAILING VESSELS.

2/ INCLUDES 4 VESSELS OPERATED IN LAKE WINNEBAGO.

HORSEPOWER DISTRIBUTION OF U. S. FISHING FLEET, 1964

HORSEPOWER	NEW ENGLAND	MIDDLE ATLANTIC	CHESA-PEAKE	SOUTH ATLANTIC	GULF	PACIFIC	GREAT LAKES 2/	HAWAII	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
UNDER 50 1/ . . .	18	17	198	38	55	177	66	1	570
50 - 99. . . .	75	50	139	231	441	1,126	117	5	2,161
100 - 149. . . .	135	142	504	333	923	1,541	122	7	3,619
150 - 199. . . .	168	180	168	303	1,573	1,092	58	13	3,409
200 - 249. . . .	88	73	108	106	280	333	21	15	955
250 - 299. . . .	56	34	44	14	105	76	4	6	305
300 - 349. . . .	55	32	23	18	91	51	1	4	258
350 - 399. . . .	24	7	7	1	9	15	-	1	58
400 - 449. . . .	39	14	12	4	10	35	1	1	98
450 - 499. . . .	12	7	5	5	14	17	-	4	57
500 - 599. . . .	26	7	11	6	14	22	-	-	80
600 - 699. . . .	12	9	2	3	20	22	-	-	66
700 - 799. . . .	6	2	1	1	4	3	-	-	15
800 - 899. . . .	2	20	2	11	3	21	-	-	47
900 - 999. . . .	3	1	-	1	11	19	-	-	32
1000 - 1499. . . .	2	13	19	30	29	9	-	-	66
1500 AND OVER. . .	-	-	2	3	-	8	-	-	12
TOTAL	721	608	1,245	1,108	3,582	4,567	390	57	11,808

1/ INCLUDES 61 SAILING VESSELS WITHOUT MOTOR POWER OPERATED IN THE CHESAPEAKE AREA.

2/ INCLUDES 4 VESSELS OPERATED IN LAKE WINNEBAGO.

CATCH BY REGION, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	NEW ENGLAND		MIDDLE ATLANTIC		CHESAPEAKE		SOUTH ATLANTIC		GULF	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES	7,239	90	51	2	27,954	516	7,563	77	433	16
AMBERJACK	-	-	(1)	(1)	-	-	7	(1)	10	(1)
ANCHOVIES	74	2	-	-	-	-	-	-	-	-
ANGLERFISH	44	1	27	1	-	-	-	-	-	-
BALLYHOO	-	-	-	-	-	-	30	4	887	125
BARRACUDA	-	-	-	-	-	-	1	(1)	2	(1)
BILLFISH	(1)	(1)	-	-	-	-	-	-	-	-
BLUEFISH	192	29	1,216	196	401	55	2,033	213	805	79
BLUE RUNNER	-	-	-	-	-	-	50	2	1,210	28
BONITO	38	6	12	2	14	1	(1)	(1)	-	-
BOWFIN	-	-	-	-	-	-	-	-	3	(1)
BUFFALOFISH	-	-	-	-	-	-	-	-	955	105
BUTTERFISH	2,869	266	2,258	259	1,244	98	130	9	-	-
CABIO	-	-	-	-	12	1	14	1	25	2
CARP	3	1	195	13	337	9	226	7	25	1
CATFISH AND BULLHEADS	1	(1)	47	5	1,852	129	14,835	2,113	6,223	1,461
CIGARFISH	-	-	-	-	-	-	-	-	502	36
COD	37,853	2,541	852	123	41	5	-	-	-	-
CRAPPIE	-	-	-	-	5	(1)	-	-	-	-
CREVALLE	-	-	-	-	-	-	114	3	537	13
CROAKER	-	-	-	-	396	64	1,978	155	88	5
CUSK	2,319	118	-	-	-	-	-	-	-	-
DOLPHIN	-	-	-	-	-	-	6	1	22	2
DRUM:										
BLACK	-	-	33	1	70	2	178	13	1,866	158
RED	-	-	-	-	5	(1)	233	33	1,527	262
EELS:										
COMMON	95	23	265	39	500	38	181	9	-	-
CONGER	34	1	8	(1)	-	-	-	-	-	-
FLOUNDERS	112,172	8,854	11,004	1,650	2,154	393	2,708	526	918	181
GARFISH	-	-	-	-	3	(1)	-	-	1,109	54
GIZZARD SHAD	-	-	-	-	86	1	-	-	-	-
GROUPERS	-	-	-	-	-	-	215	27	8,439	916
GRUNTS	-	-	1	(1)	-	-	25	2	37	3
HADDOCK	133,450	11,839	48	6	-	-	-	-	-	-
HAKE:										
RED	3,064	37	1,294	36	28	(1)	-	-	-	-
WHITE	6,857	308	60	3	(1)	(1)	-	-	-	-
HALIBUT	307	99	-	-	-	-	-	-	-	-
HARVESTFISH	-	-	-	-	168	17	17	1	-	-
HERRING, SEA	63,202	1,324	468	10	13	(1)	-	-	-	-
HICKORY SHAD	-	-	-	-	73	4	236	9	-	-
HOGCHOKER	-	-	-	-	9	(1)	-	-	-	-
HOGFISH	-	-	-	-	-	-	2	(1)	21	3
JEWFISH	-	-	-	-	-	-	32	2	209	20
KING MACKEREL	-	-	-	-	37	5	2,108	292	1,314	110
KING WHITING OR "KINGFISH"	(1)	(1)	40	3	76	7	2,842	294	1,855	98
LAUNCE	186	12	-	-	-	-	-	-	-	-
MACKEREL	3,898	249	478	70	356	37	-	-	-	-
MARLIN	-	-	(1)	(1)	-	-	-	-	-	-
MENHADEN	6	(1)	139,258	1,864	336,414	4,889	190,146	2,436	904,141	13,001
MOJARRA	-	-	-	-	-	-	181	13	105	8
MULLET	1	(1)	42	9	52	5	4,754	276	36,890	2,030
OCEAN PERCH, ATLANTIC	89,268	3,781	-	-	-	-	-	-	-	-
OCEAN POUT	3,184	44	-	-	-	-	-	-	-	-
PADDLEFISH	-	-	-	-	-	-	-	-	11	1
PERMIT	-	-	-	-	-	-	(1)	(1)	18	2
PIGFISH	-	-	-	-	3	(1)	92	7	13	1
PIKE OR PICKEREL	-	-	-	-	4	1	-	-	-	-
POLLOCK	13,283	658	4	(1)	-	-	-	-	-	-
POMPANO	-	-	-	-	-	-	176	109	642	397
SALMON, ATLANTIC	1	(1)	-	-	-	-	-	-	-	-
SAND PERCH	-	-	-	-	-	-	16	(1)	-	-
SAWFISH	-	-	-	-	-	-	-	-	4	(1)
SCUP OR PORGY	9,885	647	16,896	1,631	11,147	620	543	31	54	5
SEA BASS, BLACK (ATLANTIC)	189	38	2,696	431	4,045	390	1,190	159	-	-
SEA CATFISH	-	-	-	-	-	-	8	1	368	22
SEA ROBIN	95	1	68	2	531	5	-	-	-	-
SEA TROUT OR WEAKFISH:										
GRAY	1	(1)	728	73	1,765	177	2,080	149	-	-
SPOTTED	-	-	-	-	23	6	1,031	299	4,280	1,073
WHITE	-	-	-	-	-	-	-	-	200	13
SHAD	320	61	721	96	3,541	442	1,687	315	-	-
SHARKS:										
GRAYFISH	199	1	73	3	1,300	22	-	-	-	-
UNCLASSIFIED	13	(1)	9	(1)	112	3	33	3	4	(1)
TOTAL SHARKS	212	1	82	3	1,412	25	33	3	4	(1)

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY REGION, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	NEW ENGLAND		MIDDLE ATLANTIC		CHESAPEAKE		SOUTH ATLANTIC		GULF	
FISH - CONTINUED	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
SHEEPSHEAD:										
FRESH-WATER.	-	-	-	-	-	-	-	-	175	18
SALT-WATER	-	-	-	-	-	-	110	9	680	63
SILVERSIDES.	-	-	157	16	-	-	-	-	-	-
SKATES	83	3	15	1	6	(1)	-	-	-	-
SMELT.	257	70	-	-	-	-	-	-	-	-
SNAPPER:										
MANGROVE	-	-	-	-	-	-	85	17	325	58
MUTTON	-	-	-	-	-	-	65	16	134	30
RED.	-	-	-	-	-	-	550	197	13,334	3,864
VERMILION.	-	-	-	-	-	-	5	1	90	15
YELLOWTAIL	-	-	-	-	-	-	144	38	896	220
UNCLASSIFIED	-	-	-	-	-	-	1	(1)	-	-
SPADEFISH.	-	-	-	-	-	-	2	(1)	-	-
SPANISH MACKEREL . . .	-	-	(1)	(1)	33	5	2,083	181	3,957	378
SPOT	-	-	(1)	(1)	3,232	536	5,372	450	379	28
STRIPED BASS	632	95	2,022	321	5,189	839	717	118	-	-
STURGEON, COMMON . . .	19	1	28	6	27	4	100	17	9	2
SUCKERS.	1	(1)	(1)	(1)	3	(1)	3	(1)	-	-
SUNFISH.	-	-	(1)	(1)	21	1	-	-	-	-
SWELLFISH.	-	-	685	28	5,147	99	282	8	-	-
SWORDFISH.	1,456	431	478	161	635	218	483	233	-	-
TAUTOG	84	4	57	2	3	(1)	-	-	-	-
TENPOUNDER	-	-	-	-	-	-	-	-	842	19
TILEFISH	1,162	76	149	12	3	(1)	1	(1)	(1)	(1)
TOMCOD	-	-	2	1	-	-	-	-	-	-
TRIGGERFISH.	-	-	-	-	-	-	6	(1)	24	1
TRIPLETAIL	-	-	-	-	-	-	4	(1)	4	(1)
TUNA:										
BLUEFIN.	2,180	152	2,778	141	1,449	186	33	3	-	-
LITTLE	-	-	3	(1)	1	(1)	-	-	-	-
SKIPJACK	1,154	84	-	-	1,113	111	-	-	-	-
YELLOWFIN.	-	-	-	-	277	36	-	-	-	-
UNCLASSIFIED	-	-	-	-	123	9	-	-	-	-
TOTAL TUNA . . .	3,334	236	2,781	141	2,963	342	33	3	-	-
WARSAW	-	-	-	-	-	-	18	2	193	16
WHITE PERCH.	44	6	244	30	908	98	340	36	-	-
WHITING.	87,672	1,750	6,394	313	167	4	-	-	-	-
WOLFFISH	827	38	-	-	-	-	-	-	-	-
YELLOW PERCH	-	-	(1)	(1)	161	18	60	5	-	-
UNCLASSIFIED:										
FOR FOOD	6,696	415	379	35	43	4	263	18	1,066	76
BAIT, REDUCTION, AND ANIMAL FOOD. . . .	27,899	280	122,651	922	10,574	81	12,527	139	86,858	1,458
TOTAL FISH . . .	620,508	34,436	314,894	8,517	423,886	10,191	260,955	9,079	1,084,718	26,477
SHELLFISH, ETC.										
CRABS:										
BLUE:										
HARD	(1)	(1)	882	114	74,112	4,994	52,011	2,570	25,292	1,589
SOFT AND PEELER. .	-	-	12	3	4,496	1,715	72	34	215	134
GREEN.	63	5	-	-	-	-	-	-	-	-
ROCK	2,232	118	45	2	-	-	-	-	-	-
STONE.	-	-	-	-	-	-	191	84	752	233
TOTAL CRABS. . .	2,295	123	939	119	78,608	6,709	52,274	2,688	26,259	1,956
CRAWFISH, FRESH-WATER.	-	-	-	-	-	-	-	-	1,340	238
HORSESHOE CRABS. . . .	-	-	354	2	-	-	-	-	-	-
LOBSTERS:										
NORTHERN	29,318	19,020	1,608	822	32	14	-	-	-	-
SPINY.	-	-	-	-	-	-	786	351	2,845	1,212
SHRIMP	932	113	2	2	-	-	17,341	6,633	179,032	62,695
CLAMS:										
HARD	3,600	2,108	7,714	5,141	2,785	1,391	402	152	72	24
OCEAN QUAHOG	113	11	-	-	-	-	-	-	-	-
RAZOR.	9	4	6	1	-	-	-	-	-	-
SOFT	2,663	1,389	203	65	8,164	1,667	-	-	-	-
SURF	13	3	38,093	2,613	38	3	-	-	-	-
TOTAL CLAMS. . .	6,398	3,515	46,016	7,820	10,987	3,061	402	152	72	24
CONCHS	147	27	232	47	293	19	(1)	(1)	2	1
MUSSELS, SEA	194	17	126	17	-	-	-	-	-	-
OCTOPUS.	-	-	-	-	-	-	1	(1)	-	-
OYSTERS, MARKET,										
EASTERN:										
PUBLIC	39	44	151	168	10,135	6,925	701	388	11,890	3,234
PRIVATE.	156	282	1,205	1,199	11,963	8,881	2,826	1,121	11,495	3,039
TOTAL OYSTERS. .	195	326	1,356	1,367	22,098	15,806	3,527	1,509	23,385	6,273

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CATCH BY REGION, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	NEW ENGLAND		MIDDLE ATLANTIC		CHESAPEAKE		SOUTH ATLANTIC		GULF	
SHELLFISH, ETC.-CONT'D.	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
PERIWINKLES AND COCKLES	48	13	-	-	-	-	-	-	-	-
SCALLOPS:										
BAY.	466	595	1,063	886	-	-	340	173	18	14
SEA.	14,536	7,955	2,184	1,194	194	95	-	-	-	-
SQUID.	556	58	1,384	96	235	13	44	5	47	4
SEA URCHIN	121	3	-	-	-	-	-	-	-	-
TERRAPIN	-	-	4	1	9	3	-	-	6	1
TURTLES:										
BABY	-	-	-	-	-	-	-	-	7	28
GREEN.	-	-	-	-	-	-	-	-	33	4
LOGGERHEAD	-	-	1	(1)	-	-	-	-	1	(1)
SNAPPER.	-	-	58	7	254	37	17	3	10	2
SOFT-SHELL	-	-	-	-	-	-	310	25	-	-
UNCLASSIFIED	-	-	2	(1)	-	-	-	-	-	-
TOTAL TURTLES. .	-	-	61	7	254	37	327	28	51	34
FROGS.	-	-	-	-	-	-	-	-	15	6
IRISH MOSS	4,495	79	-	-	-	-	-	-	-	-
SPONGES.	-	-	-	-	-	-	(1)	1	44	363
BLOODWORMS	818	804	-	-	-	-	-	-	-	-
SANDWORMS.	830	512	-	-	-	-	-	-	-	-
TOTAL SHELLFISH, ETC..	61,349	33,160	55,329	12,380	112,710	25,757	75,042	11,540	233,116	72,821
GRAND TOTAL. . .	681,857	67,596	370,223	20,897	536,596	35,948	335,997	20,619	1,317,834	99,298

SPECIES	PACIFIC		GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES		HAWAII		TOTAL	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES	-	-	11,745	219	-	-	-	-	54,985	920
AMBERJACK.	-	-	-	-	-	-	96	28	113	28
ANCHOVIES.	4,975	82	-	-	-	-	-	-	5,049	84
ANGLERFISH	-	-	-	-	-	-	-	-	71	2
BALLYHOO	-	-	-	-	-	-	-	-	917	129
BARRACUDA.	334	55	-	-	-	-	11	4	348	59
BILLFISH	-	-	-	-	-	-	-	-	(1)	(1)
BLUEFISH	-	-	-	-	-	-	-	-	4,647	572
BLUE PIKE.	-	-	(1)	(1)	-	-	-	-	(1)	(1)
BLUE RUNNER.	-	-	-	-	-	-	-	-	1,260	30
BONITO	2,612	66	-	-	-	-	-	-	2,676	75
BOWFIN	-	-	2	(1)	143	4	-	-	148	4
BUFFALOFISH.	-	-	121	15	17,399	1,833	-	-	18,475	1,953
BURBOT	-	-	238	13	69	1	-	-	307	14
BUTTERFISH	-	-	-	-	-	-	-	-	6,501	632
CABEZONE	5	(1)	-	-	-	-	-	-	5	(1)
CABIO.	-	-	-	-	-	-	-	-	51	4
CABRILLA	14	2	-	-	-	-	-	-	14	2
CARP	1,142	17	5,280	150	25,938	830	-	-	33,146	1,028
CATFISH AND BULLHEADS.	-	-	1,530	387	13,574	2,784	-	-	38,062	6,879
CHUBS.	-	-	7,217	1,157	-	-	-	-	7,217	1,157
CIGARFISH.	-	-	-	-	-	-	-	-	502	36
CISCO.	-	-	9	3	-	-	-	-	9	3
COD.	6,414	351	-	-	-	-	-	-	45,160	3,020
CRAPPIE.	-	-	2	(1)	15	4	-	-	22	4
CREVALLE	-	-	-	-	-	-	112	45	763	61
CROAKER.	-	-	-	-	-	-	-	-	2,462	224
CUSK	-	-	-	-	-	-	-	-	2,319	118
DOLLY VARDEN TROUT . .	6	1	-	-	-	-	-	-	6	1
DOLPHIN.	-	-	-	-	-	-	85	47	113	50
DRUM:										
BLACK.	-	-	-	-	-	-	-	-	2,147	174
RED.	-	-	-	-	-	-	-	-	1,765	295
EELS:										
COMMON	-	-	33	7	1	(1)	-	-	1,075	116
CONGER	-	-	-	-	-	-	4	(1)	46	1
FLOUNDERS.	47,395	3,402	-	-	-	-	-	-	176,351	15,006
FLYING FISH.	86	11	-	-	-	-	-	-	86	11
GARFISH.	-	-	(1)	(1)	776	37	-	-	1,888	91
GIZZARD SHAD	-	-	11	(1)	-	-	-	-	97	1
GOATFISHES	-	-	-	-	-	-	125	68	125	68
GOLDFISH	-	-	159	4	-	-	-	-	159	4
GROUPERS	164	37	-	-	-	-	-	-	8,818	980
GRUNTS	-	-	-	-	-	-	-	-	63	5
HADDOCK.	-	-	-	-	-	-	-	-	133,498	11,845
HAKE:										
PACIFIC.	878	14	-	-	-	-	-	-	878	14
RED.	-	-	-	-	-	-	-	-	4,386	73
WHITE.	-	-	-	-	-	-	-	-	6,917	311
HALFMOON	10	2	-	-	-	-	-	-	10	2

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CATCH BY REGION, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	PACIFIC		GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES		HAWAII		TOTAL	
FISH - CONTINUED	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
HALIBUT	35,047	5,923	-	-	-	-	-	-	35,354	6,022
HARDHEAD	157	42	-	-	-	-	-	-	157	42
HARVESTFISH	-	-	-	-	-	-	-	-	185	18
HERRING:										
LAKE	-	-	6,261	371	-	-	-	-	6,261	371
SEA	52,246	891	-	-	-	-	-	-	115,929	2,225
HICKORY SHAD	-	-	-	-	-	-	-	-	309	13
HOGCHOKER	-	-	-	-	-	-	-	-	9	(1)
HOGFISH	-	-	-	-	-	-	-	-	23	3
JACK MACKEREL	89,693	2,109	-	-	-	-	292	104	89,985	2,213
JEWFISH	-	-	-	-	-	-	-	-	241	22
KING CROAKER	839	39	-	-	-	-	-	-	839	39
KING MACKEREL	-	-	-	-	-	-	-	-	3,459	407
KING WHITING OR "KINGFISH"	-	-	-	-	-	-	-	-	4,813	402
LAKE TROUT	4	1	102	67	-	-	-	-	106	68
LAUNCE	-	-	-	-	-	-	-	-	186	12
LINGCOD	5,229	294	-	-	-	-	-	-	5,229	294
MACKEREL	26,828	666	-	-	-	-	-	-	31,560	1,022
MARLIN	-	-	-	-	-	-	693	183	693	183
MENHADEN	-	-	-	-	-	-	-	-	1,569,965	22,190
MINNOWS	-	-	-	-	2	19	-	-	2	19
MOJARRA	-	-	-	-	-	-	-	-	286	21
MOONEYE	-	-	(1)	(1)	25	2	-	-	25	2
MULLET	-	-	-	-	-	-	35	31	41,774	2,351
NORTHERN PIKE	(1)	(1)	-	-	-	-	-	-	(1)	(1)
OCEAN PERCH:										
ATLANTIC	-	-	-	-	-	-	-	-	89,268	3,781
PACIFIC	20,973	999	-	-	-	-	-	-	20,973	999
OCEAN POUT	-	-	-	-	-	-	-	-	3,184	44
OPALEYE	2	(1)	-	-	-	-	-	-	2	(1)
PADDLEFISH	-	-	-	-	820	110	-	-	831	111
PERCH	264	34	-	-	-	-	-	-	264	34
PERMIT	-	-	-	-	-	-	-	-	18	2
PIGFISH	-	-	-	-	-	-	-	-	108	8
PIKE OR PICKEREL	-	-	155	22	93	13	-	-	252	36
POLLOCK	-	-	-	-	-	-	-	-	13,287	658
POMPANO	121	33	-	-	-	-	-	-	939	539
QUILLBACK	-	-	9	(1)	441	20	-	-	450	20
RATFISH	1,374	9	-	-	-	-	-	-	1,374	9
ROCK BASS	-	-	13	2	-	-	-	-	13	2
ROCKFISHES	19,315	1,003	-	-	-	-	-	-	19,315	1,003
RUDDERFISH	-	-	-	-	-	-	10	4	10	4
SABLEFISH	8,068	877	-	-	-	-	-	-	8,068	877
SALMON:										
ATLANTIC	-	-	-	-	-	-	-	-	1	(1)
CHINOOK OR KING	28,732	11,455	-	-	-	-	-	-	28,732	11,455
CHUM OR KETA	65,842	5,235	-	-	-	-	-	-	65,842	5,235
PINK	162,325	17,182	-	-	-	-	-	-	162,325	17,182
RED OR SOCKEYE	57,276	13,427	-	-	2/ 74	2/ 37	-	-	57,350	13,464
SILVER OR COHO	38,071	8,659	-	-	-	-	-	-	38,071	8,659
TOTAL SALMON	352,246	55,958	-	-	2/ 74	2/ 37	-	-	352,321	55,995
SAND PERCH	-	-	-	-	-	-	-	-	16	(1)
SARDINE, PACIFIC	13,138	500	-	-	-	-	-	-	13,138	500
SAUGER	-	-	69	6	-	-	-	-	69	6
SAWFISH	-	-	-	-	-	-	-	-	4	(1)
SCULPIN	94	27	2	(1)	-	-	-	-	96	27
SCUP OR PORGY	-	-	-	-	-	-	-	-	38,525	2,934
SEA BASS:										
BLACK (ATLANTIC)	-	-	-	-	-	-	-	-	8,120	1,018
BLACK (PACIFIC)	223	36	-	-	-	-	24	10	247	46
WHITE	1,400	309	-	-	-	-	-	-	1,400	309
SEA CATFISH	-	-	-	-	-	-	-	-	376	23
SEA ROBIN	-	-	-	-	-	-	-	-	694	8
SEA TROUT OR WEAKFISH:										
GRAY	-	-	-	-	-	-	-	-	4,574	399
SPOTTED	-	-	-	-	-	-	-	-	5,334	1,378
WHITE	-	-	-	-	-	-	-	-	200	13
SHAD	818	61	-	-	-	-	-	-	7,087	975
SHARKS:										
GRAYFISH	1,837	9	-	-	-	-	-	-	3,409	35
SOUPFIN	2	(1)	-	-	-	-	-	-	2	(1)
UNCLASSIFIED	649	63	-	-	-	-	-	-	820	69
TOTAL SHARKS	2,488	72	-	-	-	-	-	-	4,231	104
SHEEFISH	1	(1)	-	-	-	-	-	-	1	(1)
SHEEPSHEAD:										
FRESH-WATER	-	-	4,571	79	5,512	345	-	-	10,258	442
SALT-WATER	18	1	-	-	-	-	-	-	808	73

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CATCH BY REGION, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	PACIFIC		GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES		HAWAII		TOTAL	
FISH - CONTINUED	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
SILVERSIDES.	-	-	-	-	-	-	-	-	157	16
SKATES	1,017	12	-	-	-	-	-	-	1,121	16
SMELT.	1,635	155	3,468	138	-	-	-	-	5,360	363
SNAPPER:										
MANGROVE	-	-	-	-	-	-	-	-	410	75
MUTTON	-	-	-	-	-	-	-	-	199	46
RED.	-	-	-	-	-	-	-	-	13,884	4,061
VERMILION.	-	-	-	-	-	-	-	-	95	16
YELLOWTAIL	-	-	-	-	-	-	-	-	1,040	258
UNCLASSIFIED	-	-	-	-	-	-	291	167	292	167
SPADEFISH.	-	-	-	-	-	-	-	-	2	(1)
SPANISH MACKEREL . . .	-	-	-	-	-	-	-	-	6,073	564
SPOT	-	-	-	-	-	-	2	(1)	8,985	1,014
STEELHEAD TROUT. . . .	439	123	-	-	-	-	-	-	439	123
STRIPED BASS	46	7	-	-	-	-	-	-	8,606	1,380
STURGEON:										
COMMON	363	30	5	4	-	-	-	-	551	64
SHOVELNOSE, ETC. . .	-	-	-	-	43	6	-	-	43	6
SUCKERS.	14	(1)	1,212	48	873	22	-	-	2,106	70
SUNFISH.	-	-	12	1	-	-	-	-	33	2
SWELLFISH.	-	-	-	-	-	-	-	-	6,114	135
SWORDFISH.	183	103	-	-	-	-	24	4	3,259	1,150
TAUTOG	-	-	-	-	-	-	-	-	144	6
TENPOUNDER	-	-	-	-	-	-	12	3	854	22
TILEFISH	-	-	-	-	-	-	-	-	1,315	88
TOMCOD	386	7	-	-	-	-	-	-	390	8
TRIGGERFISH.	-	-	-	-	-	-	2	1	32	2
TRIPLETAIL	-	-	-	-	-	-	-	-	8	(1)
TULLIBEE	-	-	2,223	67	(1)	(1)	-	-	2,223	67
TUNA:										
ALBACORE	48,061	7,466	-	-	-	-	9	3	48,070	7,469
BLUEFIN.	23,171	2,827	-	-	-	-	3/ 839	3/ 494	30,450	3,803
LITTLE	-	-	-	-	-	-	35	6	39	6
SKIPJACK	66,059	6,624	-	-	-	-	9,024	1,222	77,350	8,041
YELLOWFIN	149,020	19,849	-	-	-	-	500	185	149,797	20,070
UNCLASSIFIED	-	-	-	-	-	-	-	-	123	9
TOTAL TUNA . . .	286,311	36,766	-	-	-	-	10,407	1,910	305,829	39,398
TURBOT	93	5	-	-	-	-	-	-	93	5
WAHOO.	4	1	-	-	-	-	33	7	37	8
WARSAW	-	-	-	-	-	-	-	-	211	18
WHITEBAIT.	191	15	-	-	-	-	-	-	191	15
WHITE BASS	-	-	1,542	254	72	7	-	-	1,614	261
WHITEFISH:										
COMMON	17	3	1,423	842	132	52	-	-	1,572	897
MENOMINEE.	-	-	62	13	-	-	-	-	62	13
WHITE PERCH.	-	-	3	(1)	-	-	-	-	1,539	170
WHITING.	-	-	-	-	-	-	-	-	94,233	2,067
WOLFFISH	-	-	-	-	-	-	-	-	827	38
YELLOW BASS.	-	-	-	-	1	(1)	-	-	1	(1)
YELLOW PERCH	-	-	8,303	1,394	279	65	-	-	8,803	1,482
YELLOW PIKE.	-	-	905	309	638	207	-	-	1,543	516
YELLOWTAIL	110	12	-	-	-	-	-	-	110	12
UNCLASSIFIED:										
FOR FOOD	148	3	-	-	6	3	358	190	8,959	744
BAIT, REDUCTION, AND ANIMAL FOOD	1,738	35	-	-	-	-	-	-	262,247	2,915
TOTAL FISH . . .	987,318	111,201	56,687	5,572	66,926	6,401	12,616	2,806	3,828,508	214,680
SHELLFISH, ETC.										
CRABS:										
BLUE:										
HARD	-	-	-	-	-	-	-	-	152,297	9,267
SOFT AND PEELER. .	-	-	-	-	-	-	-	-	4,795	1,886
DUNGENESS.	23,043	3,992	-	-	-	-	-	-	23,043	3,992
GREEN.	-	-	-	-	-	-	-	-	63	5
KING	86,721	8,186	-	-	-	-	-	-	86,721	8,186
ROCK	264	25	-	-	-	-	-	-	2,541	145
STONE.	-	-	-	-	-	-	-	-	943	317
TANNER	14	1	-	-	-	-	-	-	14	1
UNCLASSIFIED	-	-	-	-	-	-	25	14	25	14
TOTAL CRABS. . .	110,042	12,204	-	-	-	-	25	14	270,442	23,813
ARTEMIA (BRINE SHRIMP) EGGS	-	-	-	-	108	54	-	-	108	54
CRAWFISH, FRESH-WATER.	11	3	-	-	1,987	330	-	-	3,338	571
HORSESHOE CRABS. . . .	-	-	-	-	-	-	-	-	354	2
LIMPET	-	-	-	-	-	-	4	9	4	9

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY REGION, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	PACIFIC		GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES		HAWAII		TOTAL	
SHELLFISH, ETC.-CONT'D.	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
LOBSTERS:										
NORTHERN	-	-	-	-	-	-	-	-	30,958	19,856
SPINY	447	309	-	-	-	-	10	8	4,088	1,880
SHRIMP	14,497	929	-	-	17	4	(1)	(1)	211,821	70,376
ABALONE	817	574	-	-	-	-	-	-	817	574
CLAMS:										
HARD	352	170	-	-	-	-	(1)	(1)	14,925	8,986
OCEAN QUAHOG	-	-	-	-	-	-	-	-	113	11
RAZOR	224	140	-	-	-	-	-	-	239	145
SOFT	-	-	-	-	-	-	-	-	11,030	3,121
SURF	-	-	-	-	-	-	-	-	38,144	2,619
MIXED	13	8	-	-	-	-	-	-	13	8
TOTAL CLAMS	589	318	-	-	-	-	(1)	(1)	64,464	14,890
CONCHS	-	-	-	-	-	-	-	-	674	94
MUSSELS, SEA	-	-	-	-	-	-	-	-	320	34
MUSSEL SHELLS	-	-	-	-	7,847	492	-	-	7,847	492
PEARLS AND SLUGS	-	-	-	-	-	12	-	-	-	12
OCTOPUS	75	7	-	-	-	-	7	4	83	11
OYSTERS, MARKET:										
EASTERN:										
PUBLIC	-	-	-	-	-	-	-	-	22,916	10,759
PRIVATE	5	10	-	-	-	-	-	-	27,650	14,532
PACIFIC	9,934	2,537	-	-	-	-	-	-	9,934	2,537
WESTERN	34	98	-	-	-	-	-	-	34	98
TOTAL OYSTERS	9,973	2,645	-	-	-	-	-	-	60,534	27,926
PERIWINKLES AND COCKLES	-	-	-	-	-	-	-	-	48	13
SCALLOPS:										
BAY	-	-	-	-	-	-	-	-	1,887	1,668
SEA	-	-	-	-	-	-	-	-	16,914	9,244
SQUID	16,435	333	-	-	-	-	9	3	18,710	512
MOLLUSKS, UNCLASSIFIED	(1)	(1)	-	-	-	-	-	-	(1)	(1)
SEA URCHIN	-	-	-	-	-	-	-	-	121	3
TERRAPIN	-	-	-	-	-	-	-	-	19	5
TURTLES:										
BABY	-	-	-	-	11	50	-	-	18	78
GREEN	-	-	-	-	-	-	-	-	33	4
LOGGERHEAD	-	-	-	-	-	-	-	-	2	(1)
SLIDER	-	-	-	-	31	1	-	-	31	1
SNAPPER	-	-	-	-	154	22	-	-	493	71
SOFT-SHELL	-	-	-	-	-	-	-	-	310	25
UNCLASSIFIED	-	-	-	-	-	-	2	1	4	1
TOTAL TURTLES	-	-	-	-	196	73	2	1	891	180
FROGS	-	-	-	-	50	17	-	-	65	23
KELP (WITH HERRING EGGS)	399	80	-	-	-	-	-	-	399	80
IRISH MOSS	-	-	-	-	-	-	-	-	4,495	79
SEAWEED	-	-	-	-	-	-	12	3	12	3
SPONGES	-	-	-	-	-	-	-	-	44	364
BLOODWORMS	-	-	-	-	-	-	-	-	818	804
SANDWORMS	-	-	-	-	-	-	-	-	830	512
TOTAL SHELLFISH, ETC.	153,285	17,402	-	-	10,205	982	69	42	701,105	174,084
WHALE PRODUCTS:										
MEAL	3,328	155	-	-	-	-	-	-	3,328	155
MEAT	4,521	383	-	-	-	-	-	-	4,521	383
OIL:										
SPERM	401	26	-	-	-	-	-	-	401	26
WHALE	2,759	170	-	-	-	-	-	-	2,759	170
TOTAL WHALE PRODUCTS	11,009	734	-	-	-	-	-	-	11,009	734
GRAND TOTAL	1,151,612	129,337	56,687	5,572	77,131	7,383	12,685	2,848	4,540,622	389,498

1/ LESS THAN 500 POUNDS OR $500.

2/ RED OR SOCKEYE SALMON TAKEN FROM WATERS OF IDAHO.

3/ INCLUDES DATA ON THE CATCH OF BIGEYE TUNA IN HAWAII.

CATCH BY GEAR, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

GEAR	NEW ENGLAND		MIDDLE ATLANTIC		CHESAPEAKE	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
HAUL SEINES.	1,579	40	1,960	239	7,897	653
STOP NETS AND SEINES	48,231	1,004	52	4	-	-
PURSE SEINES	15,629	468	133,900	1,956	304,196	4,646
BAG NETS	77	17	-	-	-	-
BEAM TRAWLS.	-	-	2	2	-	-
OTTER TRAWLS	520,837	31,991	163,705	5,736	28,780	1,480
WEIRS.	5,195	117	365	6	-	-
POUND NETS	3,523	147	12,500	400	68,582	2,015
FLOATING TRAPS	10,141	641	-	-	-	-
FYKE AND HOOP NETS	2	(2)	202	16	3,298	139
POTS AND TRAPS	29,028	17,644	3,278	643	3/50,896	3/ 3,763
GILL NETS.	3,490	255	1,615	237	8,420	1,012
HOOKS AND BAITS.	13,719	1,331	1,406	293	14,415	1,239
DIP NETS	2,069	173	-	-	132	40
PUSH NETS.	-	-	1	(2)	-	-
HARPOONS	264	62	20	7	-	-
SPEARS	6	2	80	12	-	-
SCRAPES.	-	-	-	-	3,303	1,178
DREDGES.	16,511	9,164	45,585	7,938	34,594	11,958
TONGS AND RAKES.	7,127	1,790	4,954	3,149	11,901	7,733
HOES AND FORKS	4,357	2,721	13	5	-	-
DIVING OUTFITS	24	16	-	-	-	-
BY HAND.	48	13	585	254	182	92
TOTAL.	681,857	67,596	370,223	20,897	536,596	35,948

GEAR	SOUTH ATLANTIC		GULF		PACIFIC	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
HAUL SEINES.	10,520	905	12,929	817	1/ 2,816	1/ 261
PURSE SEINES	189,750	2,430	904,944	13,124	1/624,776	1/53,851
BAG NETS	210	65	-	-	-	-
BEAM TRAWLS.	-	-	-	-	2,841	118
OTTER TRAWLS	53,158	8,282	270,196	64,542	116,967	6,664
WEIRS.	-	-	-	-	85	17
POUND NETS	7,266	235	11	6	846	59
TRAP NETS.	-	-	-	-	1,567	176
FYKE AND HOOP NETS	594	76	1,691	331	-	-
POTS AND TRAPS	34,777	2,850	23,897	2,892	4/110,638	4/12,554
GILL NETS.	13,335	1,358	36,944	2,755	4/123,014	4/21,174
TRAMMEL NETS	100	34	7,041	1,033	-	-
HOOKS AND BAITS.	21,692	2,488	34,643	6,794	143,267	29,789
DIP NETS	182	52	1,807	269	5/ 1,406	5/ 98
REEF NETS.	-	-	-	-	394	136
WHEELS	-	-	-	-	24	4
CAST NETS.	60	15	16	1	-	-
HARPOONS	-	-	-	-	11,103	820
SPEARS	167	37	143	37	-	-
DREDGES.	540	315	18,051	4,719	6/ 9,587	6/ 2,565
TONGS AND RAKES 7/	2,845	1,143	5,275	1,540	6/ 450	6/ 91
SHOVELS.	-	-	-	-	555	306
BRUSH TRAPS.	-	-	41	19	-	-
GRABS.	-	-	11	4	-	-
HOOKS.	-	-	19	88	-	-
DIVING OUTFITS	-	-	24	275	817	574
BY HAND.	801	334	151	52	399	80
TOTAL.	335,997	20,619	1,317,834	99,298	1,151,612	129,337

GEAR	GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES	
	QUANTITY	VALUE	QUANTITY	VALUE
HAUL SEINES.	7,616	439	22,145	904
OTTER TRAWLS	11,217	302	1,511	89
WEIRS.	-	-	985	43
POUND NETS	6,860	329	31	5
TRAP NETS.	7,523	972	833	44
FYKE AND HOOP NETS	762	93	13,957	1,363
POTS AND TRAPS	-	-	2,876	526
GILL NETS.	22,484	3,380	10,971	1,260
TRAMMEL NETS	-	-	8,456	862
HOOKS AND BAITS.	219	57	7,223	1,643
DIP NETS	6	(2)	138	68
TONGS AND RAKES 7/	-	-	45	16
SHOVELS.	-	-	108	54
CROWFOOT BARS.	-	-	6,223	394
BY HAND.	-	-	1,629	112
TOTAL.	56,687	5,572	77,131	7,383

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY GEAR, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

GEAR	HAWAII		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE
HAUL SEINES.	53	17	67,515	4,275
STOP NETS AND SEINES	-	-	48,283	1,008
PURSE SEINES	-	-	2,173,195	76,477
BAG NETS	125	74	412	156
BEAM TRAWLS.	-	-	2,843	120
OTTER TRAWLS	-	-	1,166,371	119,086
WEIRS.	-	-	6,630	183
POUND NETS	-	-	99,619	3,197
TRAP NETS.	-	-	9,923	1,192
FLOATING TRAPS	-	-	10,141	641
FYKE AND HOOP NETS	-	-	20,506	2,018
POTS AND TRAPS	121	58	255,511	40,930
GILL NETS.	60	38	220,333	31,469
TRAMMEL NETS	-	-	15,597	1,929
HOOKS AND BAITS.	12,055	2,545	248,639	46,176
DIP NETS	-	-	5,740	700
LIFT NETS.	155	46	155	46
REEF NETS.	-	-	394	136
PUSH NETS.	-	-	1	(2)
WHEELS	-	-	24	4
CAST NETS.	5	3	81	19
HARPOONS	-	-	11,447	889
SPEARS	4	3	400	91
SCRAPES.	-	-	3,303	1,178
DREDGES.	-	-	124,868	36,659
TONGS AND RAKES 7/	-	-	32,597	15,462
HOES AND FORKS	-	-	4,370	2,726
SHOVELS.	-	-	663	360
BRUSH TRAPS.	-	-	41	19
CROWFOOT BARS.	-	-	6,223	394
GRABS.	-	-	11	4
HOOKS.	-	-	19	88
DIVING OUTFITS	-	-	865	865
BY HAND.	16	12	3,811	949
UNCLASSIFIED GEAR.	91	52	91	52
TOTAL.	12,685	2,848	4,540,622	389,498

1/ THE CATCH BY HAUL SEINES IN ALASKA AND BY LAMPARA NETS IN CALIFORNIA HAS BEEN INCLUDED WITH PURSE SEINES.
2/ LESS THAN $500.
3/ THE CATCH BY SLAT TRAPS IN VIRGINIA HAS BEEN INCLUDED WITH POTS AND TRAPS.
4/ THE CATCH BY TRAMMEL NETS IN CALIFORNIA HAS BEEN INCLUDED WITH GILL NETS.
5/ THE CATCH BY BRAIL OR SCOOP NETS IN CALIFORNIA HAS BEEN INCLUDED WITH DIP NETS.
6/ THE CATCH BY HAND IN WASHINGTON AND OREGON HAS BEEN INCLUDED WITH THE CATCH BY DREDGES. IN CALIFORNIA, IT HAS BEEN INCLUDED WITH TONGS.
7/ INCLUDES THE CATCH BY OYSTER GRABS.

SMALL OTTER TRAWL

CATCH FROM WATERS OFF THE UNITED STATES AND ON THE HIGH SEAS OFF FOREIGN COASTS, 1964

(MILLION POUNDS)

AREA AND SPECIES	WATERS OFF U.S. COASTS	HIGH SEAS OFF FOREIGN COASTS	TOTAL
ATLANTIC AND GULF STATES:	QUANTITY	QUANTITY	QUANTITY
NEW ENGLAND:			
COD	34.7	3.2	37.9
CUSK	1.9	.4	2.3
FLOUNDERS	111.2	1.0	112.2
HADDOCK	114.7	18.8	133.5
HAKE, WHITE	6.5	.4	6.9
HALIBUT	.2	.1	.3
OCEAN PERCH	17.3	72.0	89.3
POLLOCK	10.6	2.7	13.3
SWORDFISH	1.4	.1	1.5
WOLFFISH	.5	.3	.8
SCALLOPS, SEA	14.5	(1)	14.5
UNCLASSIFIED	269.3	.1	269.4
TOTAL	582.8	99.1	681.9
MIDDLE ATLANTIC STATES, UNCLASSIFIED, TOTAL	370.2	-	370.2
CHESAPEAKE STATES:			
TUNA	2.5	.5	3.0
UNCLASSIFIED	533.6	-	533.6
TOTAL	536.1	.5	536.6
SOUTH ATLANTIC STATES, UNCLASSIFIED, TOTAL	336.0	-	336.0
GULF:			
GROUPERS	7.2	1.2	8.4
SNAPPER:			
RED	7.3	6.0	13.3
OTHER	1.3	.1	1.4
WARSAW	.1	.1	.2
SHRIMP	149.0	30.0	179.0
UNCLASSIFIED	1,115.5	(1)	1,115.5
TOTAL	1,280.4	37.4	1,317.8
TOTAL ATLANTIC AND GULF STATES	3,105.5	137.0	3,242.5
PACIFIC COAST STATES:			
ALASKA, WASHINGTON, AND OREGON:			
BOTTOMFISH (WASHINGTON AND OREGON) 2/	39.4	33.3	72.7
HALIBUT	32.7	2.3	35.0
SALMON	340.7	2.1	342.8
UNCLASSIFIED	200.1	.1	200.2
TOTAL	612.9	37.8	650.7
CALIFORNIA:			
BARRACUDA	.2	.1	.3
CABRILLA	(1)	(1)	(1)
FLOUNDERS	20.4	.2	20.6
GROUPERS	-	.2	.2
MACKEREL, JACK	89.7	(1)	89.7
ROCKFISHES	8.0	.1	8.1
SEA BASS:			
BLACK	-	.2	.2
WHITE	.6	.8	1.4
SHARKS, UNCLASSIFIED	.6	(1)	.6
TUNA:			
ALBACORE	33.9	8.7	42.6
BLUEFIN	4.7	18.5	23.2
SKIPJACK	-	66.1	66.1
YELLOWFIN	-	149.0	149.0
YELLOWTAIL	-	.1	.1
UNCLASSIFIED	98.8	(1)	98.8
TOTAL	256.9	244.0	500.9
TOTAL PACIFIC COAST STATES	869.8	281.8	1,151.6
GREAT LAKES AND MISSISSIPPI RIVER STATES, UNCLASSIFIED, TOTAL	133.8	-	133.8
HAWAII, UNCLASSIFIED, TOTAL	12.7	-	12.7
GRAND TOTAL	4,121.8	418.8	4,540.6

1/ LESS THAN 50,000 POUNDS.

2/ PRINCIPALLY COD, FLOUNDERS (INCLUDING SOLE), LINGCOD, OCEAN PERCH, ROCKFISHES, AND SABLEFISH.

RELATIVE VOLUME OF THE CATCH, BY SPECIES, 1964

SPECIES	QUANTITY	PERCENT OF TOTAL	RECORD CATCH AND YEAR	
	THOUSAND POUNDS	PERCENT	YEAR	THOUSAND POUNDS
MENHADEN	1,569,965	34.6	1962	2,347,944
SALMON	352,321	7.8	1936	790,884
TUNA	305,829	6.7	1950	391,454
CRABS	270,442	6.0	1964	270,442
INDUSTRIAL FISH 1/	262,247	5.8	1964	262,247
SHRIMP	211,821	4.7	1954	268,334
FLOUNDERS	176,351	3.9	1963	176,798
HADDOCK	133,498	2.9	1929	293,809
HERRING, SEA:				
ATLANTIC	63,683	1.4	1902	200,598
PACIFIC	52,246	1.1	1937	263,200
TOTAL	115,929	2.5	-	-
WHITING	94,233	2.1	1957	133,041
JACK MACKEREL	89,985	2.0	1952	146,522
OCEAN PERCH, ATLANTIC	89,268	2.0	1951	258,320
CLAMS	64,464	1.4	1964	64,464
OYSTERS	60,534	1.3	2/ 1908	152,046
ALEWIVES	54,985	1.2	1908	89,978
COD:				
ATLANTIC	38,746	.9	1880	294,351
PACIFIC	6,414	.1	1915	32,681
TOTAL	45,160	1.0	-	-
MULLET	41,774	.9	1902	43,385
SCUP OR PORGY	38,525	.8	1960	49,229
CATFISH AND BULLHEADS	38,062	.8	1963	38,614
HALIBUT, PACIFIC	35,047	.8	1915	66,696
CARP	33,146	.7	1908	42,659
LOBSTERS, NORTHERN	30,958	.7	1960	31,168
MACKEREL, PACIFIC	26,828	.6	1935	146,727
OCEAN PERCH, PACIFIC	20,973	.5	1963	23,578
ROCKFISHES	19,315	.4	1945	57,686
SQUID	18,710	.4	1946	40,266
BUFFALOFISH	18,475	.4	1950	25,873
SCALLOPS, SEA	16,914	.4	1961	27,461
SNAPPER, RED	13,884	.3	1902	23,457
POLLOCK	13,287	.3	1938	40,694
SARDINE, PACIFIC	13,138	.3	1936	1,502,299
WHALE PRODUCTS 3/	11,009	.2	(4)	(4)
SHEEPSHEAD, FRESH-WATER	10,258	.2	1959	13,644
SPOT	8,985	.2	1952	15,863
GROUPERS	8,818	.2	1945	8,882
YELLOW PERCH	8,803	.2	1934	16,282
STRIPED BASS	8,606	.2	1961	9,495
SEA BASS, BLACK (ATLANTIC)	8,120	.2	1952	21,997
SABLEFISH	8,068	.2	1945	17,750
MUSSEL SHELLS	7,847	.2	1908	81,869
CHUBS	7,217	.2	1960	16,854
SHAD	7,087	.2	1890	43,000
HAKE, WHITE	6,917	.2	1898	39,900
BUTTERFISH	6,501	.1	1939	17,151
HERRING, LAKE	6,261	.1	1899	59,914
SWELLFISH	6,114	.1	1964	6,114
SPANISH MACKEREL	6,073	.1	1945	11,593
SMELT	5,360	.1	1958	13,303
SEA TROUT OR WEAKFISH, SPOTTED	5,334	.1	1936	8,800
LINGCOD	5,229	.1	1944	14,262
ANCHOVIES	5,049	.1	1953	86,044
KING WHITING OR "KINGFISH"	4,813	.1	1952	5,270
BLUEFISH	4,647	.1	5/ 1897	22,673
SEA TROUT OR WEAKFISH, GRAY	4,574	.1	1945	41,420
IRISH MOSS	4,495	.1	1961	6,995
HAKE, RED	4,386	.1	(4)	(4)
SHARKS	4,231	.1	1944	61,184
LOBSTERS, SPINY	4,088	.1	1957	4,687
KING MACKEREL	3,459	.1	1963	5,058
UNCLASSIFIED	82,205	1.8	-	-
TOTAL	4,540,622	100.0	-	-

1/ UNCLASSIFIED SPECIES FOR BAIT, REDUCTION, AND ANIMAL FOOD. 2/ FIRST YEAR IN WHICH AN OYSTER SURVEY WAS MADE IN ALL REGIONS. 3/ SINCE DATA ARE NOT AVAILABLE ON THE POUNDAGE OF WHALES TAKEN, STATISTICS ON THE YIELD OF THESE MAMMALS REPRESENT THE WEIGHT OF THE WHALE PRODUCTS WHICH INCLUDES MEAL, MEAT, AND OIL.. 4/ DATA NOT AVAILABLE. 5/ INCLUDES DATA ON NEW ENGLAND CATCH IN 1898.

RELATIVE VALUE OF THE CATCH, BY SPECIES, 1964

SPECIES	VALUE	PERCENT OF TOTAL	RECORD VALUE AND YEAR	
	THOUSAND DOLLARS	PERCENT	YEAR	THOUSAND DOLLARS
SHRIMP	70,376	18.1	1953	76,641
SALMON	55,995	14.4	1962	56,353
TUNA	39,398	10.1	1950	61,342
OYSTERS	27,926	7.2	1961	33,204
CRABS	23,813	6.1	1964	23,813
MENHADEN	22,190	5.7	1956	28,425
LOBSTERS, NORTHERN	19,856	5.1	1964	19,856
FLOUNDERS	15,006	3.9	1963	15,411
CLAMS	14,890	3.8	1964	14,890
HADDOCK	11,845	3.0	1946	13,043
SCALLOPS, SEA	9,244	2.4	1959	11,805
CATFISH AND BULLHEADS	6,879	1.8	1964	6,879
HALIBUT, PACIFIC	5,923	1.5	1962	11,579
SNAPPER, RED	4,061	1.0	1964	4,061
OCEAN PERCH, ATLANTIC	3,781	1.0	1951	12,597
COD:				
ATLANTIC	2,669	.7	1948	4,742
PACIFIC	351	.1	1959	664
TOTAL	3,020	.8	-	-
SCUP OR PORGY	2,934	.8	1963	3,099
INDUSTRIAL FISH 1/	2,915	.7	1963	3,044
MULLET	2,351	.6	1945	4,647
HERRING, SEA:				
ATLANTIC	1,334	.4	1948	3,798
PACIFIC	891	.2	1947	2,152
TOTAL	2,225	.6	-	-
JACK MACKEREL	2,213	.6	1952	4,755
WHITING	2,067	.5	1951	2,903
BUFFALOFISH	1,953	.5	1952	3,564
LOBSTERS, SPINY	1,880	.5	1964	1,880
SCALLOPS, BAY	1,668	.4	1964	1,668
YELLOW PERCH	1,482	.4	1958	1,540
STRIPED BASS	1,380	.4	1959	1,436
SEA TROUT OR WEAKFISH, SPOTTED	1,378	.4	1952	1,781
CHUBS	1,157	.3	1958	2,564
SWORDFISH	1,150	.3	1946	1,435
CARP	1,028	.3	1951	2,007
SEA BASS, BLACK (ATLANTIC)	1,018	.3	1952	5,206
SPOT	1,014	.3	1964	1,014
ROCKFISHES	1,003	.3	1945	2,648
OCEAN PERCH, PACIFIC	999	.3	1963	1,172
GROUPERS	980	.3	1945	1,036
SHAD	975	.2	1945	2,680
ALEWIVES	920	.2	1964	920
WHITEFISH, COMMON	897	.2	1948	3,784
SABLEFISH	877	.2	1946	1,634
BLOODWORMS	804	.2	1964	804
WHALE PRODUCTS 2/	734	.2	(3)	(3)
MACKEREL, PACIFIC	666	.2	1957	1,231
POLLOCK	658	.2	1945	1,819
BUTTERFISH	632	.2	1962	1,005
ABALONE	574	.1	1963	626
BLUEFISH	572	.1	1951	760
CRAWFISH, FRESH-WATER	571	.1	1964	571
SPANISH MACKEREL	564	.1	1945	1,521
POMPANO	539	.1	1941	695
YELLOW PIKE	516	.1	1951	2,152
SQUID	512	.1	1947	1,370
SANDWORMS	512	.1	1963	526
SARDINE, PACIFIC	500	.1	1950	12,140
MUSSEL SHELLS	492	.1	(3)	(3)
SHEEPSHEAD, FRESH-WATER	442	.1	1951	929
KING MACKEREL	407	.1	1945	578
UNCLASSIFIED	9,136	2.3	-	-
TOTAL	389,498	100.0	-	-

1/ UNCLASSIFIED SPECIES FOR BAIT, REDUCTION, AND ANIMAL FOOD. 2/ THE VALUE OF THE WHALE PRODUCTS REPRESENTS THE AMOUNT RECEIVED BY THE MANUFACTURER FOR THE PRODUCTION OF WHALE MEAL, MEAT, AND OIL. 3/ DATA NOT AVAILABLE.

U. S. CATCH - LIVE WEIGHT BASIS

In the annual digest it has been the practice of the Bureau to show the catch of univalve and bivalve mollusks on the basis of the weight of meats. Insofar as possible, all other fish and shellfish items are shown on a live weight basis.

Since world fishery statistics published by the Food and Agriculture Organization of the United Nations represent the live weight of the catch for all items of fish and shellfish, it has been necessary to provide that organization with information on the domestic catch of all species on a live weight basis. Data released by the Food and Agriculture Organization, therefore, indicate that the 1964 U. S. catch was 1.3 billion pounds greater than the figure appearing in Bureau publications. The increase is due to the inclusion of the weight of the shells of univalve and bivalve mollusks in the Food and Agriculture Organization data.

Included, therefore, in this report is a table showing the entire domestic catch on a live weight basis. Information is also published on the catch of fishery products in the principal countries of the world so that the relative importance of the domestic fisheries can be determined. Tables containing these data follow:

U. S. CATCH, 1964 - LIVE WEIGHT BASIS

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

ITEM	QUANTITY	VALUE
FISH	3,828,508	214,680
SHELLFISH, ETC:		
UNIVALVE AND BIVALVE MOLLUSKS:		
ABALONE	4,000	574
CLAMS:		
HARD	114,224	8,986
OCEAN QUAHOG	901	11
RAZOR	571	145
SOFT	56,615	3,121
SURF	201,203	2,619
MIXED	63	6
TOTAL CLAMS	373,577	14,890
CONCHS	2,131	94
LIMPETS	20	9
MUSSELS:		
SEA	2,014	34
FRESH-WATER	8,632	504
OYSTERS, MARKET	913,762	27,926
PERIWINKLES AND COCKLES	200	13
SCALLOPS:		
BAY	15,318	1,668
SEA	139,960	9,244
TOTAL UNIVALVE AND BIVALVE MOLLUSKS	1,459,614	54,956
CRUSTACEANS	521,001	116,498
OTHER	26,595	2,630
TOTAL SHELLFISH, ETC.	2,007,210	174,084
WHALE PRODUCTS	11,009	734
GRAND TOTAL	5,846,727	389,498

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY COUNTRIES, 1964

The world commercial landings of fish, crustaceans, mollusks, etc., in 1964 was 113.8 billion pounds, according to the "Yearbook of Fishery Statistics, 1964" released by the Food and Agriculture Organization of the United Nations. The landings were 11 percent more than the 1963 production of 102.3 billion pounds and once again established a new record.

Five countries accounted for well over 50 percent of the 1964 world catch. Peru, with 17.7 percent, continued for the third successive year as world leader in total fishery landings--the result of phenomenal increases in the catch of industrial fish (anchoveta) used primarily for fish meal. Japan (12.3 percent) was in second place, followed by China (Mainland) with 11.2 percent. The U.S.S.R. was fourth (8.7 percent), and the United States, fifth (5.1 percent).

Asia accounted for 37 percent of the world landings, followed by South America (21 percent); Europe (19 percent); U.S.S.R. (9 percent); North America (8 percent); and Africa (6 percent). An insignificant percentage was taken in Oceania.

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY COUNTRIES, 1964

(LIVE WEIGHT BASIS)

COUNTRY	BILLION POUNDS	PERCENT
PERU	20.13	17.7
JAPAN	13.97	12.3
CHINA (MAINLAND)	1/ 12.79	11.2
U. S. S. R.	9.87	8.7
UNITED STATES	2/ 5.84	5.1
NORWAY	3.55	3.1
INDIA	2.91	2.6
CANADA	2.67	2.4
SPAIN	2.64	2.3
CHILE	2.56	2.3
UNITED KINGDOM	2.15	1.9
ICELAND	2.14	1.9
INDONESIA	3/ 2.06	1.8
DENMARK	1.92	1.7
FRANCE	1.72	1.5
SOUTH WEST AFRICA	1.47	1.3
FEDERAL REPUBLIC OF GERMANY	1.38	1.2
PHILIPPINES	1.37	1.2
PORTUGAL	1.33	1.2
SOUTH AFRICA	1.29	1.1
THAILAND	1.27	1.1
REPUBLIC OF KOREA	1.16	1.0
REPUBLIC OF VIET-NAM	.88	.8
NETHERLANDS	.85	.7
BRAZIL	4/ .84	.7
CHINA (TAIWAN)	.83	.7
SWEDEN	.82	.7
BURMA	.79	.7
ANGOLA	.78	.7
PAKISTAN	3/ .76	.7
POLAND	.58	.5
MEXICO	.57	.5
ITALY	.56	.5
MALAYSIA	.53	.5
GERMANY, EASTERN	.50	.4
MOROCCO	.45	.4
CAMBODIA	.36	.3
ARGENTINA	.35	.3
OTHER	7.12	6.3
TOTAL	113.76	100.0

1/ 1960 DATA.
2/ REVISED. EXCLUDES WHALE PRODUCTS.
3/ 1963 DATA.
4/ 1962 DATA.
SOURCE:--YEARBOOK OF FISHERY STATISTICS, 1964, VOLUME 18, FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS.

SEED OYSTER FISHERY, 1964

ITEM	NEW ENGLAND 1/		MIDDLE ATLANTIC 2/		CHESAPEAKE 3/		TOTAL	
OPERATING UNITS	NUMBER		NUMBER		NUMBER		NUMBER	
FISHERMEN:								
ON VESSELS	14		1,083		239		1,336	
ON BOATS AND SHORE:								
REGULAR	1		195		568		764	
CASUAL	3		-		576		579	
TOTAL	18		1,278		1,383		2,679	
VESSELS, MOTOR	4		121		113		238	
GROSS TONNAGE	163		3,657		693		4,513	
BOATS:								
MOTOR	3		115		518		636	
OTHER	1		-		-		1	
GEAR:								
DREDGES, COMMON	2		242		-		244	
YARDS AT MOUTH	1		243		-		244	
TONGS	2		-		1,383		1,385	
CATCH	U. S. BUSHELS	VALUE	U. S. BUSHELS	VALUE	U. S. BUSHELS	VALUE	U. S. BUSHELS	VALUE
OYSTER, SEED:								
PUBLIC:								
SPRING	-	-	216,629	$ 441,415	527,764	$786,939	744,393	$1,228,354
FALL	148	$ 447	1,920	11,520	140,388	196,663	142,456	208,630
PRIVATE:								
SPRING	10,731	54,150	2,058	20,906	24,425	35,785	37,214	110,841
FALL	11,696	55,089	5,000	50,000	27,400	38,595	44,096	143,684
TOTAL	22,575	109,686	225,607	523,841	719,977	1,057,982	968,159	1,691,509

1/ CONFINED TO CONNECTICUT AND MASSACHUSETTS.
2/ CONFINED TO NEW YORK AND NEW JERSEY.
3/ CONFINED TO VIRGINIA.
NOTE:--SOME OF THE FISHERMEN ENGAGED IN HARVESTING SEED OYSTERS ALSO FISH FOR MARKET OYSTERS OR OTHER SPECIES.

WHOLESALING AND MANUFACTURING, 1964

ITEM	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING:					
ESTABLISHMENTS	539	484	622	423	780
PERSONS ENGAGED:					
AVERAGE FOR SEASON	11,842	7,436	10,284	8,148	16,924
AVERAGE FOR YEAR	8,248	6,235	7,454	5,387	11,804

ITEM	PACIFIC	GREAT LAKES	MISSISSIPPI RIVER AND TRIBUTARIES	HAWAII	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING:					
ESTABLISHMENTS	600	254	402	17	4,121
PERSONS ENGAGED:					
AVERAGE FOR SEASON	23,476	2,880	2,659	327	83,976
AVERAGE FOR YEAR	13,273	2,184	2,359	275	57,219

MANUFACTURED FISHERY PRODUCTS, 1964

The production of manufactured products (packaged fresh and frozen, canned, cured, and industrial products) in the United States, American Samoa, and Puerto Rico was valued at $964.7 million to the producers--an increase of $50.2 million compared with 1963. Canned products accounted for 45 percent of the total value; fresh and frozen packaged products, 43 percent; industrial products (principally meal and oil), 7 percent; and cured products, 5 percent.

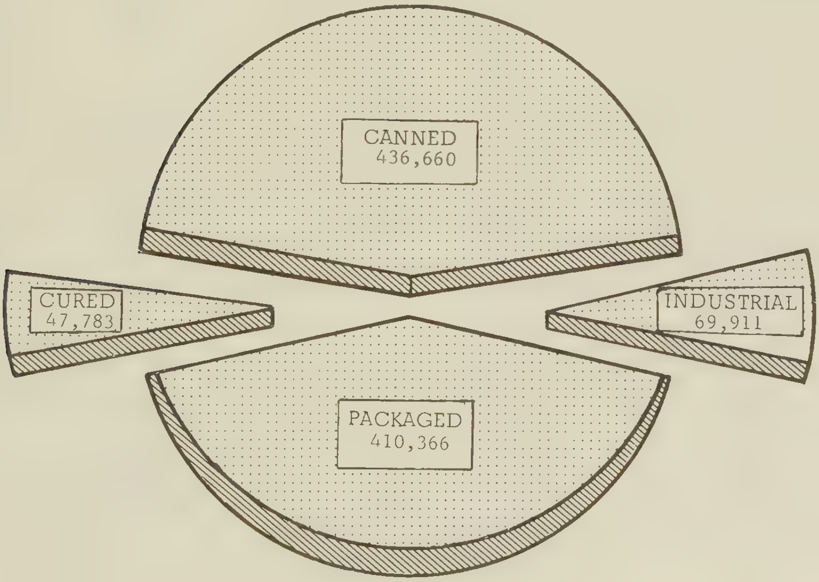
The 1964 canned fish and shellfish pack was 1.1 billion pounds valued at $436.7 million to the packers. The pack for human food was 742.1 million pounds worth $391.0 million; the pack for animal food and bait was 353.5 million pounds worth $45.6 million. Tuna led all other species in 1964 with a record pack of 17.7 million cases (349.8 million pounds) valued at $217.6 million. The value of three items--salmon, tuna, and animal food accounted for 82 percent of the total amount received by the producers of canned fishery products in 1964.

Production of fresh and frozen packaged fish and shellfish was 708.5 million pounds valued at $410.4 million--an increase of 38.1 million pounds and $34.3 million compared with 1963.

Industrial fishery products, principally meal and oil, were valued at $69.9 million--an increase of $1.3 million compared with the previous year. There were 235,252 tons of fish meal manufactured in 1964--20,655 tons less than in 1963. The 1964 production of solubles and marine-animal oils was 186.6 and 180.2 million pounds respectively.

VALUE OF MANUFACTURED FISHERY PRODUCTS, 1964

(thousands of dollars)



TOTAL 964,720

MANUFACTURED FISHERY PRODUCTS, [illegible]

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		QUANTITY	VALUE
HADDOCK - CONTINUED:			
SPECIALTIES:			
FROZEN DINNERS	POUNDS	780,702	[illegible]
CANNED (FINNAN HADDIE, CREAMED)	STANDARD CASES	(1)	(1)
SMOKED:			
FILLETS	POUNDS	(1)	(1)
FINNAN HADDIES.	DO	180,650	[illegible]
HAKE:			
FILLETS:			
FRESH	DO	267,081	80,884
FROZEN.	DO	14,790	2,950
SALTED.	DO	(1)	(1)
HALIBUT (INCLUDES ALASKA PRODUCTION):			
FILLETS, FRESH AND FROZEN	DO	1,558,507	782,832
STEAKS, FROZEN.	DO	8,001,132	3,777,327
SPECIALTIES, FROZEN (AU GRATIN, DINNERS, ETC.).	DO	(1)	(1)
CANNED, SMOKED.	STANDARD CASES	7	420
SMOKED.	POUNDS	480,870	169,805
HERRING, LAKE:			
FILLETS:			
FRESH AND FROZEN.	DO	33,750	9,008
BREADED	DO	(1)	(1)
SALTED.	DO	653,590	85,779
SMOKED.	DO	134,418	40,584
HERRING, SEA:			
CANNED:			
MAINE SARDINES.	STANDARD CASES	865,751	7,583,821
SPECIALTIES (TIDBITS, SNACKS, AND SPREADS). .	DO	8,100	100,741
SALTED:			
BRINED.	POUNDS	(1)	(1)
PICKLED	DO	10,621,557	4,684,609
SMOKED.	DO	454,442	138,087
SPECIALTIES, CURED AND REFRIGERATED (PARTY SNACKS, BISMARK, ETC.)	DO	7,455,796	4,318,860
SALTED EGGS (WITH KELP)	DO	274,800	164,200
MEAL AND SCRAP.	TONS	8,881	1,102,522
OIL	1,000 POUNDS	10,354	785,155
KING MACKEREL:			
STEAKS, FROZEN.	POUNDS	92,000	34,670
SMOKED.	DO	(1)	(1)
LAKE TROUT:			
FILLETS:			
FRESH	DO	53,145	35,130
FROZEN.	DO	23,690	13,622
SMOKED.	DO	24,960	20,373
LINGCOD FILLETS:			
FRESH	DO	923,578	218,301
FROZEN.	DO	527,235	132,583
LUMPFISH CAVIAR, CANNED	STANDARD CASES	(1)	(1)
MACKEREL:			
ATLANTIC:			
FILLETS, FRESH AND FROZEN	POUNDS	24,475	7,111
CANNED.	STANDARD CASES	(1)	(1)
SALTED.	POUNDS	(1)	(1)
SMOKED.	DO	82,415	35,580
JACK:			
CANNED.	STANDARD CASES	820,554	5,224,856
SALTED (DRIED).	POUNDS	34,105	24,253
SMOKED.	DO	(1)	(1)
PACIFIC:			
CANNED.	STANDARD CASES	250,269	1,535,184
SALTED (DRIED).	POUNDS	(1)	(1)
SMOKED.	DO	(1)	(1)
MARLIN, SMOKED.	DO	(1)	(1)
MENHADEN:			
MEAL AND SCRAP.	TONS	160,349	20,001,220
OIL	1,000 POUNDS	157,730	11,734,935
SOLUBLES.	TONS	68,738	4,054,981
MULLET:			
FILLETS, FRESH AND FROZEN	POUNDS	(1)	(1)
CANNED.	STANDARD CASES	(1)	(1)

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		QUANTITY	VALUE
MULLET - CONTINUED:			
SALTED:			
FISH	POUNDS	297,900	$33,128
ROE	DO	18,750	14,188
SMOKED	DO	(1)	(1)
SPECIALTIES, CURED AND REFRIGERATED	DO	(1)	(1)
OCEAN PERCH:			
ATLANTIC FILLETS:			
FRESH	DO	428,003	121,463
FROZEN	DO	23,386,520	6,202,712
BREADED RAW AND COOKED, FROZEN	DO	1,446,100	573,051
PACIFIC FILLETS:			
FRESH	DO	2,191,633	483,975
FROZEN	DO	3,341,832	799,142
PADDLEFISH, SMOKED	DO	18,440	15,420
PIKE OR PICKEREL FILLETS:			
FRESH AND FROZEN	DO	50,300	24,126
BREADED, FROZEN	DO	(1)	(1)
POLLOCK:			
FILLETS:			
FRESH	DO	1,488,212	353,440
FROZEN	DO	1,808,977	365,417
BREADED AND COOKED	DO	(1)	(1)
SALTED	DO	15,250	4,026
SMOKED	DO	(1)	(1)
DRIED	DO	(1)	(1)
POMPANO FILLETS, FROZEN	DO	(1)	(1)
ROCKFISH:			
FILLETS:			
FRESH	DO	2,707,576	587,095
FROZEN	DO	1,462,765	330,951
SMOKED	DO	(1)	(1)
SABLEFISH:			
FILLETS, FROZEN	DO	(1)	(1)
STEAKS, FRESH AND FROZEN	DO	(1)	(1)
SPECIALTIES, FROZEN (IN SAUCES)	DO	11,375	8,900
SALTED	DO	143,100	54,010
SMOKED	DO	3,014,187	2,160,880
SALMON:			
FILLETS, FROZEN	DO	864,500	581,600
STEAKS, FROZEN	DO	1,115,250	763,136
CANNED:			
CHINOOK OR KING	STANDARD CASES	95,804	3,695,711
CHUM OR KETA	DO	724,459	13,032,634
PINK	DO	1,940,061	39,698,211
RED OR SOCKEYE	DO	776,894	32,474,213
SILVER OR COHO	DO	219,066	6,728,886
STEELHEAD	DO	2,914	131,062
TOTAL	DO	3,759,198	95,760,717
SMOKED	DO	1,840	147,120
CAVIAR	DO	5,952	549,329
EGGS FOR BAIT	DO	21,906	2,162,995
SPECIALTIES (SPREADS AND SALTED LIVERS)	DO	196	9,994
SALTED:			
MILD-CURED	POUNDS	5,169,880	4,532,800
CAVIAR	DO	504,936	508,362
EGGS FOR BAIT	DO	2,623,006	1,275,053
SPECIALTIES (SALTED BELLIES, ROE IN WINE SAUCE)	DO	12,475	16,928
SMOKED	DO	11,364,722	17,501,797
OIL	1,000 POUNDS	491	43,115
SARDINES, PACIFIC:			
CANNED	STANDARD CASES	120,850	1,029,903
SALTED	POUNDS	(1)	(1)
MEAL AND SCRAP	TONS	(1)	(1)
OIL	1,000 POUNDS	(1)	(1)
SAUGER FILLETS:			
FRESH	POUNDS	393,200	287,960
FROZEN	DO	459,200	313,650
SCUP OR PORGY FILLETS, FRESH	DO	(1)	(1)

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		QUANTITY	VALUE
YELLOW PERCH FILLETS:			
FRESH	POUNDS	2,462,652	$1,584,491
FROZEN	DO	604,198	332,937
BREADED, FROZEN	DO	310,100	223,085
YELLOW PIKE FILLETS:			
FRESH	DO	720,003	568,999
FROZEN	DO	659,500	471,450
BREADED, FROZEN	DO	(1)	(1)
CRABS:			
BLUE, HARD (INCLUDES ROCK CRABS):			
FRESH AND FROZEN COOKED MEAT	DO	16,244,243	19,100,549
SPECIALTIES, FROZEN:			
CAKES AND DEVILED	DO	6,131,073	4,488,469
OTHER (AU GRATIN, STUFFED, ROLLS, STICKS, ETC.)	DO	1,514,786	1,031,930
CANNED:			
REGULAR	STANDARD CASES	49,848	1,143,420
SPECIALTIES (BISQUE, DEVILED, DIPS, ETC.)	DO	16,319	248,339
BACK SHELLS, CLEANED AND POLISHED	-	-	46,103
DUNGENESS:			
FRESH AND FROZEN:			
COOKED MEAT	POUNDS	4,331,926	4,205,853
SECTIONS	DO	2,701,300	1,291,950
CANNED:			
REGULAR	STANDARD CASES	19,885	679,562
SPECIALTIES	DO	140	8,198
KING:			
FRESH AND FROZEN:			
COOKED MEAT	POUNDS	12,311,200	12,209,510
SECTIONS	DO	6,207,000	3,236,580
CANNED, REGULAR	STANDARD CASES	267,060	6,813,482
FREEZE-DRIED	POUNDS	(1)	(1)
STONE CLAWS, COOKED, FROZEN	DO	55,350	52,345
TANNER, WHOLE, FROZEN	DO	12,800	3,840
MEAL AND SCRAP	TONS	9,723	439,440
CRAWFISH:			
COOKED MEAT, FRESH	POUNDS	43,838	59,757
SPECIALTIES:			
FRESH AND FROZEN (BISQUE)	DO	(1)	(1)
CANNED (BISQUE)	STANDARD CASES	1,162	24,491
LOBSTERS:			
NORTHERN:			
FRESH AND FROZEN, COOKED MEAT	POUNDS	1,026,299	3,640,137
FROZEN, WHOLE	DO	(1)	(1)
SPECIALTIES:			
FROZEN (COCKTAILS, LOBSTERETTES, NEWBURGS, ETC.)	DO	561,510	730,705
CANNED (MEAT, DEVILED, DIP, NEWBURGS, ETC.)	STANDARD CASES	15,197	301,562
SPINY, FRESH AND FROZEN (WHOLE AND TAILS)	POUNDS	1,892,858	1,872,660
SHRIMP, FRESH AND FROZEN:			
RAW, HEADLESS	DO	64,536,864	52,895,063
PEELED (INCLUDING DEVEINED):			
RAW	DO	23,133,746	26,107,154
COOKED	DO	3,559,428	4,958,053
BREADED (RAW AND COOKED)	DO	91,333,152	63,387,788
SPECIALTIES:			
FRESH COCKTAILS (REFRIGERATED)	DO	2,984,594	2,519,974
FROZEN (DIPS, BURGERS, SAUCES, STUFFED, ETC.)	DO	4,774,249	3,512,140
CANNED:			
REGULAR	STANDARD CASES	649,332	12,985,850
SPECIALTIES	DO	12,235	245,637
CURED:			
FREEZE-DRIED	POUNDS	(1)	(1)
SUN DRIED	DO	226,166	460,902
SMOKED	DO	(1)	(1)
MEAL AND SCRAP	TONS	377	15,430
ABALONE:			
STEAKS	POUNDS	603,991	955,704
SPECIALTIES, FROZEN (BREADED PATTIES)	DO	(1)	(1)

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		QUANTITY	VALUE
SEA BASS:			
FILLETS AND STEAKS, FRESH AND FROZEN	POUNDS	175,219	$81,731
SMOKED	DO	(1)	(1)
SEA TROUT FILLETS, FRESH AND FROZEN	DO	99,501	45,620
SHAD:			
FILLETS, FRESH AND FROZEN	DO	84,336	58,214
CANNED:			
FISH	STANDARD CASES	1,235	10,886
ROE	DO	670	38,592
SMOKED	POUNDS	94,600	38,840
SHARK, SMOKED	DO	(1)	(1)
SMELT:			
BREADED AND COOKED, FROZEN	DO	(1)	(1)
CANNED, SMOKED	STANDARD CASES	(1)	(1)
SMOKED	POUNDS	(1)	(1)
DRIED	DO	(1)	(1)
SNAPPER, RED:			
FILLETS:			
FRESH	DO	60,128	67,747
FROZEN	DO	374,635	283,142
STEAKS, FRESH AND FROZEN	DO	136,800	76,680
SPANISH MACKEREL FILLETS, FRESH AND FROZEN	DO	939,820	318,271
STRIPED BASS FILLETS, FRESH AND FROZEN	DO	(1)	(1)
STURGEON:			
CANNED:			
SMOKED AND SPREADS	STANDARD CASES	1,040	61,655
CAVIAR	DO	(1)	(1)
SMOKED	POUNDS	1,478,038	2,729,208
SUCKERS, SMOKED	DO	(1)	(1)
SWORDFISH:			
STEAKS, FROZEN	DO	1,163,726	605,891
SPECIALTIES, DINNERS	DO	(1)	(1)
SMOKED	DO	13,454	10,925
TUNA:			
SPECIALTIES, FROZEN (PIES, WITH NOODLES, ETC.)	DO	1,027,567	246,574
CANNED:			
ALBACORE	STANDARD CASES	5,982,266	77,754,593
LIGHTMEAT (INCLUDING TONNO)	DO	11,706,737	139,829,972
TOTAL	DO	17,689,003	217,584,565
SPECIALTIES:			
SMOKED, CREAMED AND SPREADS	DO	8,213	98,796
WITH NOODLES	DO	48,341	888,894
SMOKED	POUNDS	38,910	38,230
DRIED WITH SALT	DO	88,738	95,648
TUNALIKE:			
FILLETS, FRESH AND FROZEN	DO	(1)	(1)
CANNED	STANDARD CASES	24,674	177,062
SMOKED	POUNDS	22,206	18,531
WAHOO:			
CANNED	STANDARD CASES	(1)	(1)
SMOKED	POUNDS	(1)	(1)
WHITEBASS FILLETS:			
FRESH	DO	117,578	61,106
FROZEN	DO	60,500	28,590
WHITEFISH:			
FILLETS:			
FRESH	DO	306,652	235,032
FROZEN	DO	70,960	45,976
CANNED:			
FISH	STANDARD CASES	(1)	(1)
CAVIAR	DO	1,571	120,604
SMOKED	POUNDS	2,918,430	2,525,845
WHITING:			
FILLETS:			
FRESH	DO	2,778	696
FROZEN	DO	2,091,581	458,846
SMOKED	DO	608,200	229,459
WOLFFISH FILLETS:			
FRESH	DO	19,904	5,811
FROZEN	DO	82,441	25,812

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		QUANTITY	VALUE
CLAMS:			
SHUCKED, FRESH AND FROZEN:			
HARD (INCLUDING SURF AND OCEAN QUAHOG, WHOLE AND MINCED)	GALLONS	1,891,957	$4,964,238
RAZOR	DO	14,393	110,592
SOFT	DO	786,487	4,295,543
SPECIALTIES, FROZEN:			
BREADED (INCLUDING DEVILED)	POUNDS	2,148,992	2,228,817
OTHER (CROQUETTES, CUTLETS, STICKS, ETC.)	DO	1,514,346	824,471
CANNED:			
WHOLE AND MINCED:			
HARD, SOFT AND SURF	STANDARD CASES	577,418	6,662,543
RAZOR	DO	1,151	31,171
CHOWDER AND JUICE (HARD, SURF AND SOFT)	DO	1,722,318	11,262,788
SPECIALTIES	DO	65,350	1,189,605
CONCH MEAT:			
FROZEN	POUNDS	(1)	(1)
STEAMED	DO	(1)	(1)
CANNED:			
MEAT	STANDARD CASES	5,597	182,795
SPECIALTIES	DO	(1)	(1)
MUSSELS, SEA:			
SPECIALTIES, FROZEN	POUNDS	(1)	(1)
CANNED	STANDARD CASES	(1)	(1)
MUSSEL SHELL:			
BUTTONS	GROSS	223,300	242,356
CHIPS	TONS	848	48,677
LIME	DO	(1)	(1)
OYSTERS:			
EASTERN:			
SHUCKED, FRESH AND FROZEN	GALLONS	4,139,486	30,708,800
STEAMED	DO	112,502	2,162,580
FROZEN:			
BREADED	POUNDS	3,110,592	3,166,179
SPECIALTIES (BURGERS, PIES, STEWS, STUFFED, ETC.)	DO	1,058,431	451,262
CANNED:			
REGULAR	STANDARD CASES	359,907	4,383,403
SPECIALTIES (BISQUE, SOUP AND STEWS)	DO	1,082	16,874
SHELL PRODUCTS:			
CRUSHED SHELL FOR POULTRY GRIT	TONS	287,531	4,300,568
LIME, BURNED AND UNBURNED	DO	66,089	506,808
PACIFIC:			
SHUCKED, FRESH AND FROZEN	GALLONS	1,126,200	4,366,361
BREADED	POUNDS	62,785	48,141
CANNED:			
REGULAR	STANDARD CASES	62,354	908,277
SPECIALTIES:			
SMOKED	DO	307	27,949
OTHER (SOUP, STEWS, AND CASSEROLES)	DO	114,737	2,122,291
SHELL PRODUCTS:			
CRUSHED SHELL FOR POULTRY GRIT	TONS	7,359	92,677
LIME, BURNED AND UNBURNED	DO	1,564	14,871
WESTERN OYSTERS, SHUCKED	GALLONS	6,260	188,755
SCALLOPS:			
BAY, SHUCKED, FRESH AND FROZEN	DO	176,545	1,840,916
SEA, FRESH AND FROZEN MEATS	POUNDS	4,832,894	2,977,815
BREADED:			
RAW	DO	3,170,227	2,061,555
COOKED	DO	3,364,566	2,612,947
SPECIALTIES, FROZEN (DINNERS, ETC.)	DO	989,310	692,838
SQUID:			
FROZEN:			
NATURAL	DO	(1)	(1)
IN TOMATO SAUCE	DO	(1)	(1)
CANNED	STANDARD CASES	214,649	887,484
TURTLE:			
STEAKS, FROZEN	POUNDS	31,940	23,537
CANNED (MEAT, SOUP AND STEWS)	STANDARD CASES	17,043	271,155
OIL	1,000 POUNDS	(1)	(1)

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		QUANTITY	VALUE
WHALE:			
MEAT, FROZEN	POUNDS	4,521,766	$382,521
MEAL	TONS	1,664	155,359
OIL:			
SPERM	1,000 POUNDS	401	25,684
OTHER	DO	2,759	169,926
UNCLASSIFIED:			
PACKAGED FRESH AND FROZEN:			
FISH:			
FILLETS AND STEAKS, RAW, NOT BREADED	POUNDS	682,106	355,269
STICKS, BREADED:			
RAW	DO	5,763,703	1,989,071
COOKED	DO	67,810,261	27,996,699
FILLETS, STEAKS AND PORTIONS, BREADED (RAW AND COOKED)	DO	104,836,461	36,106,040
PORTIONS, RAW, NOT BREADED	DO	2,541,264	910,002
CAKES, RAW AND COOKED	DO	1,436,510	667,432
FISH AND SHELLFISH SPECIALTIES	DO	13,879,059	9,855,711
CANNED FISH AND SHELLFISH:			
CAKES	STANDARD CASES	60,372	845,087
GEFILTEFISH	DO	311,954	5,095,732
ANIMAL FOOD	DO	7,341,670	43,470,700
MISCELLANEOUS (CHOWDERS, GUMBO AND UNCLASSIFIED SHELLFISH IN SOUP, STEWS, ETC.)	DO	114,966	2,813,552
CURED:			
SMOKED	POUNDS	392,435	261,081
SALTED	DO	676,604	186,593
DRIED (INCLUDES FREEZE-DRIED)	DO	80,060	505,068
MEAL AND SCRAP:			
TUNA AND MACKEREL	TONS	21,113	2,229,443
UNCLASSIFIED	DO	31,688	3,914,916
OIL:			
BODY:			
TUNA AND MACKEREL	1,000 POUNDS	4,816	272,178
UNCLASSIFIED	DO	2,918	191,599
LIVER	DO	23	24,000
FISH SOLUBLES	TONS	23,711	1,555,979
MARINE PEARL SHELL BUTTONS	GROSS	406,917	1,004,344
OTHER (AGAR-AGAR, FISH FEED PELLETS, LIQUID FERTILIZER, IRISH MOSS EXTRACT, KELP PRODUCTS, PEARL ESSENCE, ETC.)	-	-	16,656,549
GRAND TOTAL	-	-	964,720,194

1/ INCLUDED WITH UNCLASSIFIED ITEMS.

NOTE:--SOME OF THE ABOVE ITEMS HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM FOREIGN COUNTRIES; THEREFORE, THE PRODUCTION CANNOT BE CORRELATED DIRECTLY WITH THE CATCH. CERTAIN ITEMS, SUCH AS SALTED ALEWIVES, MILD CURED SALMON AND STEAMED OYSTERS, ETC., ARE SHOWN IN AN INTERMEDIATE AND ALSO A MORE ADVANCED STAGE OF PROCESSING. THE LIME AND POULTRY FEED MANUFACTURED FROM SHELL PRODUCTS WERE PROCESSED FROM LIVE AND REEF MOLLUSK SHELLS THAT ARE NOT INCLUDED IN THE CATCH STATISTICS.

SUMMARY OF MANUFACTURED FISHERY PRODUCTS, 1964

(THOUSANDS OF DOLLARS)

ITEM		QUANTITY	VALUE
PACKAGED PRODUCTS, FRESH AND FROZEN:			
FISH:			
NOT BREADED:			
FILLETS AND STEAKS, RAW.	1,000 POUNDS	161,363	57,521
OTHER (INCLUDES WHALE MEAT FOR ANIMAL FEEDING).	DO	11,047	2,470
BREADED, RAW AND COOKED:			
STICKS	DO	73,574	29,986
FILLETS, PORTIONS, AND STEAKS.	DO	109,416	38,373
SHELLFISH:			
NOT BREADED.	DO	214,007	180,500
BREADED.	DO	103,327	73,570
SPECIALTIES, FISH AND SHELLFISH.	DO	35,758	27,946
TOTAL FRESH AND FROZEN	DO	708,492	410,366
CANNED:			
FISH, SHELLFISH, ETC., FOR HUMAN CONSUMPTION . .	DO	742,114	391,026
SALMON EGGS FOR BAIT	DO	1,051	2,163
ANIMAL FOOD.	DO	352,400	43,471
TOTAL BAIT AND ANIMAL FOOD	DO	353,451	45,634
TOTAL CANNED	DO	1,095,565	436,660
CURED:			
SALTED	DO	37,015	16,735
SMOKED	DO	27,213	29,732
LUTEFISK	DO	862	230
DRIED (INCLUDES FREEZE-DRIED PRODUCTS)	DO	429	1,086
TOTAL CURED.	DO	65,519	47,783
INDUSTRIAL:			
MEAL AND SCRAP (2,000 POUNDS PER TON).	DO	470,504	28,039
OIL, BODY AND LIVER (7.75 POUNDS PER GALLON) . .	DO	180,198	13,297
FISH SOLUBLES.	DO	186,592	5,662
OYSTER SHELL LIME AND POULTRY GRIT	DO	725,086	4,915
MARINE PEARL SHELL AND MUSSEL SHELL BUTTONS. . .	1,000 GROSS	634	1,277
OTHER (AGAR-AGAR, FISH FEED PELLETS, ANIMAL FEEDS, IRISH MOSS EXTRACTS, KELP PRODUCTS, PEARL ESSENCE, ETC.).	-	-	16,721
TOTAL INDUSTRIAL PRODUCTS.	-	-	69,911
GRAND TOTAL.	-	-	964,720

CANNED FISHERY PRODUCTS, 1964

The pack of canned fishery products by 324 plants in the United States, American Samoa, and Puerto Rico was 35.8 million standard cases (1.1 billion pounds) valued at $436.7 million to the packers. Compared with 1963, production was up 1.2 million cases and $15.1 million. The gain resulted mainly from a record pack of tuna and increases in the packs of salmon and animal food. The packs of mackerel, Maine sardines, crab meat, clam chowder and juice, oysters, and shrimp were smaller than in the previous year.

The pack for human consumption (742.1 million pounds) was 13.2 million pounds more than in 1963, while production of bait and animal food (353.5 million pounds) was 46.5 million pounds greater. Three items--salmon, tuna, and animal food--accounted for 82 percent of the total value received by producers of canned fishery products in 1964. Animal food containing less than 10 pounds of fish per standard case of 48 pounds (4.0 million cases valued at $17.3 million) has been excluded.

Tuna:--The pack reached a record 17.7 million cases (349.8 million pounds) valued at a new high of $217.6 million--an increase of 1.1 million cases (23.1 million pounds) and $16 million compared with 1963. The Pacific Coast led with 61 percent of the pack, followed by Puerto Rico, 27 percent; Hawaii and American Samoa, 8 percent; and Atlantic Coast plants, 4 percent. Although the 1964 domestic catch of tuna was less than in 1963, imports of frozen tuna for canning were up sharply. Production and consumption of tuna in 1964 was at a high level and consumers bought tuna at prices that reflected the popularity of the product.

Salmon:--The pack of salmon was 3.8 million cases (180.4 million pounds) valued at $95.8 million. Compared with 1963, this was an increase of 464,000 cases and $7.8 million. Alaska accounted for 94 percent of the volume and 91 percent of the value. Production in Washington was low because of light runs of pink salmon in even-numbered years.

Mackerel:--The pack of mackerel (1.1 million cases valued at $6.8 million) was 205,000 cases less than in 1963. Jack mackerel accounted for 77 percent of the volume and value of the total pack. There might have been a larger pack had not fishing been curtailed for two months pending the outcome of negotiations for an increase in ex-vessel price.

Sardines:--The 1964 pack of Pacific sardines (121,000 cases valued at $1.0 million) was one of the smallest on record. Except for a good showing of fish in Southern California on the season's opening night, sardines failed to appear in large numbers and only scattered small catches were made during the balance of the year.

In Maine, the pack was the second smallest since 1938--production was down 48 percent in volume and 43 percent in value, compared with 1963.

Clams:--The 1964 pack of clams and clam products was 2.3 million cases valued at $18.0 million; in 1963, the pack was 2.2 million cases valued at $17.4 million. Whole and minced clams accounted for 25 percent of the pack; chowders and juices, 75 percent.

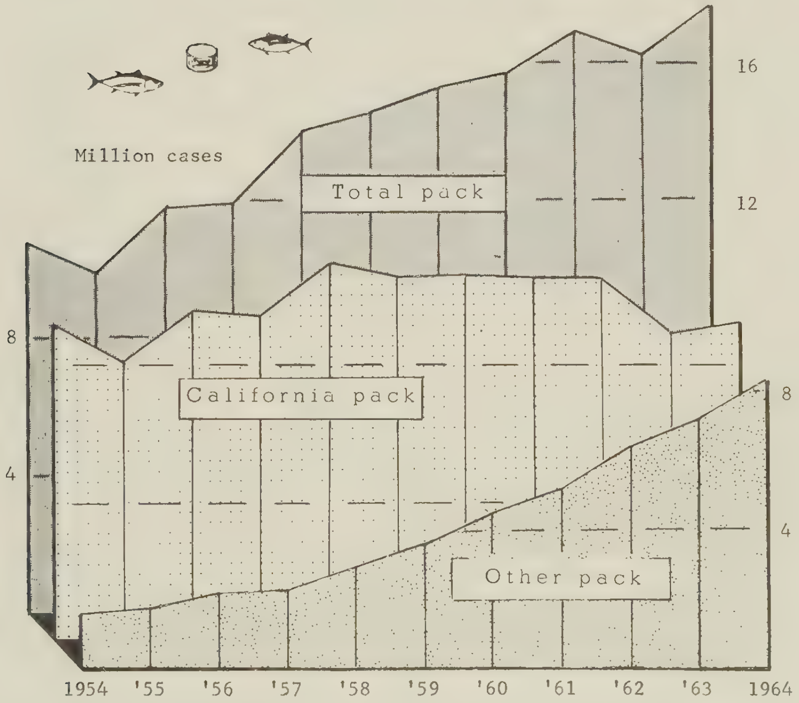
Shrimp:--The pack of shrimp was 649,000 cases valued at $13.0 million--a decline of 39 percent in volume and 34 percent in value, compared with 1963. The 1964 pack was the second lowest since 1948. Production in the Gulf States and on the Pacific Coast was less than in the previous year.

Crabs:--The pack of 336,793 cases valued at $8.6 million was 40,000 cases (11 percent) and $1.7 million (16 percent) less than the record 1963 pack. Compared with the previous year, the pack of blue crab meat along the Atlantic and Gulf Coasts was down 9 percent, and the combined packs of Dungeness and king crab meat in Washington and Oregon were down 30 percent--primarily as a result of the continued scarcity of Dungeness crabs. There was a large decrease in Alaska's spectacular king crab industry. For the first year since 1955, the pack failed to increase over the previous year's production. There was a record catch of king crabs in 1964, but a disastrous earthquake crippled canning operations.

Oysters:--The oyster pack was 422,000 cases valued at $5.3 million--24,000 cases and $300,000 less than in 1963. Production of oyster specialties (smoked, stew, bisque, and soup) was 116,000 cases, compared with 172,000 cases in the previous year.

Animal Food:--The 1964 pack of animal food containing 10 pounds or more of raw fish per standard case (48 one pound cans) was 7.3 million cases valued at $43.5 million--an increase of 15 percent in volume and 11 percent in value, compared with 1963.

U. S. CANNED TUNA PACK, 1954-64



SUMMARY OF PRODUCTION, BY COMMODITIES, 1964

PRODUCT	NUMBER OF PLANTS	STANDARD CASES	POUNDS PER CASE	POUNDS	VALUE
CANNED PRODUCTS:					
FOR HUMAN CONSUMPTION:					
SALMON	108	3,759,198	48	180,441,504	$95,760,717
SARDINES:					
MAINE	23	865,751	23.4	20,258,573	7,583,821
PACIFIC	7	120,850	45	5,438,250	1,029,903
TUNA:					
SOLID	32	4,519,408	21	94,907,568	61,010,919
CHUNKS	25	11,915,930	19.5	232,360,635	147,213,291
FLAKES AND GRATED	26	1,253,665	18	22,565,970	9,360,355
TOTAL	1/ 35	17,689,003	-	349,834,173	217,584,565
TUNALIKE FISH	5	24,674	21-19.5-18	466,743	177,062
ALEWIVES	8	74,581	45	3,356,145	300,402
MACKEREL	9	1,070,823	45	48,187,035	6,760,040
SHAD	5	1,235	45	55,575	10,886
FISH CAKES (PRINCIPALLY GROUNDFISH)	3	60,372	48	2,897,856	845,087
GEFILTEFISH	5	311,954	48	14,973,792	5,095,732
SALMON, SMOKED	34	1,840	48	88,320	147,120
STURGEON, SMOKED AND SPREADS	15	1,040	48	49,920	61,655
TUNA SPECIALTIES:					
SMOKED, CREAMED AND SPREADS	7	8,213	48	394,224	98,796
WITH NOODLES	3	48,341	48	2,320,368	888,894
ANCHOVY PASTE	4	1,068	48	51,264	73,235
MISCELLANEOUS FISH SPECIALTIES	23	97,895	48	4,698,960	1,308,963
FISH ROE AND CAVIAR	25	66,390	48	3,186,720	2,764,305
TOTAL FISH	-	24,203,228	-	636,699,422	340,491,183
CRAB MEAT	30	336,793	19.5	6,567,464	8,636,464
CRAB MEAT SPECIALTIES	10	16,459	48	790,032	256,537
LOBSTER MEAT AND SPECIALTIES	6	15,197	48	729,456	301,562
SHRIMP	33	649,332	15	2/ 9,739,980	12,985,850
SHRIMP SPECIALTIES	11	12,235	48	587,280	245,637
CLAMS AND CLAM PRODUCTS:					
WHOLE	8	15,426	15	231,390	231,165
MINCED	23	563,143	15	3/ 8,447,145	6,462,549
CHOWDER	17	1,600,867	30	3/48,026,010	10,676,125
JUICE	12	121,451	30	3/ 3,643,530	586,663
TOTAL	1/ 42	2,300,887	-	3/60,348,075	17,956,502
CLAM SPECIALTIES	16	65,350	48	3,136,800	1,189,605
CONCH MEAT	3	5,597	48	268,656	182,795
OYSTERS	28	422,261	14	2/ 5,911,654	5,291,680
OYSTER SPECIALTIES:					
SMOKED	7	307	48	14,736	27,949
STEWS	6	113,169	48	5,432,112	2,090,954
BISQUE AND SOUPS	7	2,650	48	127,200	48,211
SQUID	9	214,649	48	10,303,152	887,484
TURTLE MEAT, SOUPS AND STEWS	9	17,043	48	818,064	271,155
MISCELLANEOUS SHELLFISH SPECIALTIES	9	13,327	48	639,696	162,405
TOTAL SHELLFISH	-	4,185,256	-	105.414,357	50,534,790
TOTAL FOR HUMAN CONSUMPTION	-	28,388,484	-	742,113,779	391,025,973
BAIT AND ANIMAL FOOD:					
ANIMAL FOOD	56	7,341,670	48	352,400,160	43,470,700
SALMON EGGS FOR BAIT	9	21,906	48	1,051,488	2,162,995
TOTAL BAIT AND ANIMAL FOOD	1/ 65	7,363,576	-	353,451,648	45,633,695
GRAND TOTAL	1/324	35,752,060	-	1,095,565,427	436,659,668

1/ EXCLUSIVE OF DUPLICATION.

2/ DRAINED WEIGHT.

3/ "CUT OUT" OR "DRAINED" WEIGHTS OF CAN CONTENTS ARE GIVEN FOR WHOLE OR MINCED CLAMS, AND NET CAN CONTENTS FOR OTHER CLAM PRODUCTS.

NOTE:--LISTS OF CANNERS OF FISHERY PRODUCTS BY INDIVIDUAL COMMODITIES MAY BE OBTAINED FROM THE OFFICE OF INFORMATION, U.S. FISH AND WILDLIFE SERVICE, WASHINGTON, D.C. 20240.

SUMMARY OF PRODUCTION, BY STATES, 1964

STATE	CANNED FISHERY PRODUCTS	
	POUNDS	VALUE
MAINE	44,039,888	$13,713,179
MASSACHUSETTS, RHODE ISLAND, AND CONNECTICUT	75.008,034	9,180,130
NEW YORK	10,130,133	4,790,267
NEW JERSEY	39,393,759	13,125,838
PENNSYLVANIA AND DELAWARE	15,646,866	4,845,724
MARYLAND	16,138,271	7,343,300
VIRGINIA	8,288,562	1,096,807
NORTH CAROLINA	1,211,895	487,296
SOUTH CAROLINA	1,245,999	1,197,972
FLORIDA	120,864	59,457
ALABAMA AND TEXAS	309,522	348,471
MISSISSIPPI	117,301,379	11,783,732
LOUISIANA	10,692,910	12,640,467
WISCONSIN	6,503,952	863,767
ILLINOIS, KANSAS, AND NEBRASKA	6,785,712	512,022
OHIO AND MICHIGAN	294,816	73,272
ALASKA	175,917,120	94,763,050
WASHINGTON	29,677,256	16,966,186
OREGON	42,319,757	20,386,379
CALIFORNIA	341,599,425	137,632,957
HAWAII AND AMERICAN SAMOA	32,292,967	18,623,540
PUERTO RICO	120,646,340	66,225,855
TOTAL	1,095,565,427	436,659,668

FACTORS USED TO CONVERT STANDARD CASES TO POUNDS

PRODUCT	PRIOR TO 1939	1939 AND 1940	1941	1942	1943
	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE
SARDINES:					
MAINE	25	25	25	20.3	20.3
PACIFIC	48	48	48	45	45
TUNA AND TUNALIKE FISHES:					
SOLID	24	24	21	22.5	22.5
CHUNKS	-	-	-	-	-
FLAKES	24	24	21	18	18
MACKEREL	48	48	48	45	45
ALEWIVES	48	48	48	48	45
ANCHOVIES	48	48	48	48	48
SHAD	48	48	48	48	48
FISH FLAKES	48	48	48	48	48
OYSTERS	15	15	15	15	22.5
SHRIMP, WET PACK	17.25	17.25	17.25	21	21
CLAM PRODUCTS:					
WHOLE AND MINCED	15	15	15	15	15
JUICE, CHOWDER, BROTH, ETC.	30	30	30	30	30
CRABS	48	39	39	39	39
ALL OTHERS	48	48	48	48	48

PRODUCT	1944 TO 1947	1948 TO 1951	1952	1953 TO 1957	1958 TO 1964
	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE
SARDINES:					
MAINE	20.3	20.3	20.3	20.3	23.4
PACIFIC	45	45	45	45	45
TUNA AND TUNALIKE FISHES:					
SOLID	21	21	21	21	21
CHUNKS	(1)	(1)	19.5	19.5	19.5
FLAKES	18	18	18	18	18
MACKEREL	45	45	45	45	45
ALEWIVES	45	45	45	45	45
ANCHOVIES	48	48	48	31.25	31.25
SHAD	45	45	45	45	45
FISH FLAKES	42	42	42	48	48
OYSTERS	22.5	14	14	14	14
SHRIMP, WET PACK	21	15	15	15	15
CLAM PRODUCTS:					
WHOLE AND MINCED	15	15	15	15	15
JUICE, CHOWDER, BROTH, ETC.	30	30	30	30	30
CRABS	39	19.5	19.5	19.5	19.5
ALL OTHERS	48	48	48	48	48

1/ PRIOR TO 1952 CHUNK PACK TUNA WAS INCLUDED WITH THE FLAKE PACK.

NOTE:--THE FACTORS LISTED ABOVE WERE USED IN CONVERTING THE STANDARD CASES REPORTED IN THE CANNED FISHERY PRODUCTS BULLETINS FOR THE YEARS INDICATED.

PLANTS PRODUCING CANNED FISHERY PRODUCTS, 1964

AREA AND STATE	NUMBER OF PLANTS
NEW ENGLAND:	
MAINE	30
MASSACHUSETTS	5
RHODE ISLAND	1
CONNECTICUT	1
TOTAL	37
MIDDLE ATLANTIC:	
NEW YORK	11
NEW JERSEY	14
PENNSYLVANIA	8
DELAWARE	1
TOTAL	34
CHESAPEAKE BAY:	
MARYLAND	5
VIRGINIA	9
TOTAL	14
SOUTH ATLANTIC AND GULF:	
NORTH CAROLINA	6
SOUTH CAROLINA	3
FLORIDA	4
ALABAMA	1
MISSISSIPPI	13
LOUISIANA	22
TEXAS	2
TOTAL	51
GREAT LAKES AND MISSISSIPPI RIVER:	
ILLINOIS	2
KANSAS	1
MICHIGAN	1
NEBRASKA	1
OHIO	2
WISCONSIN	3
TOTAL	10
PACIFIC COAST:	
ALASKA	68
WASHINGTON	62
OREGON	18
CALIFORNIA	23
TOTAL	171
HAWAII	1
AMERICAN SAMOA	2
PUERTO RICO	4
GRAND TOTAL	324

PACK OF SALMON, 1964

(STANDARD CASES)

SPECIES	ALASKA		WASHINGTON	
	CASES	VALUE	CASES	VALUE
CHINOOK OR KING. . . .	37,759	$1,260,710	12,913	$398,794
CHUM OR KETA	702,869	12,665,610	21,178	359,372
PINK	1,928,231	39,428,970	11,830	269,241
RED OR SOCKEYE	715,660	29,428,080	58,736	2,884,432
SILVER OR COHO	164,860	4,746,660	25,672	844,034
TOTAL.	3,549,379	87,530,030	130,329	4,755,873

SPECIES	OREGON		TOTAL	
	CASES	VALUE	CASES	VALUE
CHINOOK OR KING. . . .	1/45,132	1/$2,036,207	95,804	$3,695,711
CHUM OR KETA	412	7,652	724,459	13,032,634
PINK	-	-	1,940,061	39,698,211
RED OR SOCKEYE	2,498	161,701	776,894	32,474,213
SILVER OR COHO	28,534	1,138,192	219,066	6,728,886
STEELHEAD.	2,914	131,062	2,914	131,062
TOTAL.	79,490	3,474,814	3,759,198	95,760,717

1/ INCLUDES A SMALL PACK PRODUCED IN CALIFORNIA.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CANS CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT 1 POUND CANS EACH CONTAINING 16 OUNCES. SALMON WERE CANNED IN 29 PLANTS IN WASHINGTON; 10 IN OREGON AND 69 IN ALASKA, AND 1 IN CALIFORNIA. THE PACK OF SMOKED SALMON IS INCLUDED IN THE TABLE "PACK OF MISCELLANEOUS FISHERY PRODUCTS".

PACK OF SALMON, BY CAN SIZES, 1964

(STANDARD CASES)

STATE AND SPECIES	CAN SIZE							
	4-POUND TALL		1-POUND TALL		1/2-POUND FLAT		1/4-POUND FLAT	
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
ALASKA:								
CHINOOK OR KING. . .	20	$560	17,690	$510,180	19,990	$747,850	59	$2,120
CHUM OR KETA	10,816	206,240	665,242	11,877,430	26,748	580,050	63	1,890
PINK	38,242	829,420	1,758,272	35,195,600	131,461	3,395,750	256	8,200
RED OR SOCKEYE . . .	4,212	158,350	462,838	17,383,870	186,399	8,469,210	62,211	3,416,650
SILVER OR COHO . . .	6,332	182,700	150,936	4,297,960	6,728	231,440	864	34,560
TOTAL.	59,622	1,377,270	3,054,978	69,265,040	371,326	13,424,300	63,453	3,463,420
WASHINGTON:								
CHINOOK OR KING. . .	665	19,721	4,236	74,599	7,513	280,016	499	24,458
CHUM OR KETA	1,928	35,624	15,474	249,931	3,590	69,331	186	4,486
PINK	1,269	27,918	3,179	60,495	6,324	151,182	1,058	29,646
RED OR SOCKEYE . . .	1,451	56,589	11,922	420,367	24,870	1,235,013	20,493	1,172,463
SILVER OR COHO . . .	3,262	97,860	3,025	60,987	10,513	346,120	8,872	339,067
TOTAL.	8,575	237,712	37,836	866,379	52,810	2,081,662	31,108	1,570,120
OREGON:								
CHINOOK OR KING. . .	-	-	2,970	79,239	1/37,028	1/1,627,749	5,134	329,219
CHUM OR KETA	-	-	335	6,030	77	1,622	-	-
RED OR SOCKEYE . . .	-	-	-	-	420	23,497	2,078	138,204
SILVER OR COHO . . .	-	-	3,210	85,876	8,239	300,143	17,085	752,173
STEELHEAD.	-	-	-	-	2,209	102,862	705	28,200
TOTAL.	-	-	6,515	171,145	47,973	2,055,873	25,002	1,247,796
GRAND TOTAL. . .	68,197	1,614,982	3,099,329	70,302,564	472,109	17,561,835	119,563	6,281,336

1/ INCLUDES A SMALL PACK PRODUCED IN CALIFORNIA.

WASHINGTON AND OREGON SALMON PACK, BY DISTRICTS, 1964

(STANDARD CASES)

SPECIES	PUGET SOUND		COLUMBIA RIVER		COASTAL		TOTAL	
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
CHINOOK OR KING . . .	4,872	$88,234	52,620	$2,328,838	1/ 671	1/ $23,437	58,163	$2,440,509
CHUM OR KETA.	19,499	329,983	2,091	37,041	-	-	21,590	367,024
PINK.	11,830	269,241	-	-	-	-	11,830	269,241
RED OR SOCKEYE. . . .	58,196	2,856,066	2,706	172,169	332	17,898	61,234	3,046,133
SILVER OR COHO. . . .	23,551	777,744	30,478	1,198,947	177	5,535	54,206	1,982,226
STEELHEAD	-	-	-	-	2,914	131,062	2,914	131,062
TOTAL	117,948	4,321,268	87,895	3,736,995	4,094	177,932	209,937	8,236,195

1/ INCLUDES A SMALL PACK PRODUCED IN CALIFORNIA.
NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT 1 POUND CANS, EACH CONTAINING 16 OUNCES.

PUGET SOUND SALMON PACK, BY ORIGIN OF FISH, 1964

(STANDARD CASES)

SPECIES	PUGET SOUND FISH	CANADIAN FISH	ALASKAN FISH	TOTAL FISH
	CASES	CASES	CASES	CASES
CHINOOK OR KING	1/ 4,872	-	-	4,872
CHUM OR KETA.	8,717	-	10,782	19,499
PINK.	268	-	11,562	11,830
RED OR SOCKEYE.	42,476	-	15,720	58,196
SILVER OR COHO.	19,601	-	3,950	23,551
TOTAL	75,934	-	42,014	117,948

1/ INCLUDES A SMALL PACK FROM ALASKA FISH.
NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT 1 POUND CANS, EACH CONTAINING 16 OUNCES.

PACK OF MAINE SARDINES, 1964 1/

STYLE OR PACK	STANDARD CASES	VALUE
IN SOYBEAN OIL.	759,126	$6,859,704
IN MUSTARD SAUCE. . . .	59,299	462,583
IN TOMATO SAUCE	43,389	217,680
IN OLIVE OIL.	3,937	43,854
TOTAL	865,751	7,583,821

CAN CONTENTS AND CASE SIZE	ACTUAL CASES	VALUE
3-3/4 OUNCES NET (100 CANS)	747,067	$6,816,871
15 OUNCES NET (48 CANS) . .	29,456	252,332
OTHER SIZES CONVERTED TO STANDARD CASES	62,038	514,618
TOTAL	838,561	7,583,821

1/ INCLUDES SEA HERRING.
NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE UNIFORM BASIS OF ONE HUNDRED 1/4 OIL CANS (3-3/4 OUNCES NET) TO THE CASE. SARDINES WERE CANNED IN 23 PLANTS IN MAINE.

PACK OF PACIFIC SARDINES, 1964

STYLE OF PACK	STANDARD CASES	VALUE
NATURAL	29,303	$187,596
IN TOMATO SAUCE	72,340	658,045
IN MUSTARD SAUCE. . . .	19,207	184,262
TOTAL	120,850	1,029,903

CAN CONTENTS AND CASE SIZE	ACTUAL CASES	VALUE
1 POUND CAN:		
15 OUNCES NET, OVAL (48 CANS).	30,395	$194,497
15 OUNCES NET, TALL (48 CANS).	86,780	795,748
OTHER SIZES CONVERTED TO STANDARD CASES	3,675	39,658
TOTAL	120,850	1,029,903

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE UNIFORM BASIS OF FORTY-EIGHT 1 POUND CANS, EACH CONTAINING 15 OUNCES NET WEIGHT. SARDINES WERE CANNED IN 7 PLANTS IN CALIFORNIA.

PACK OF TUNA, 1964

(STANDARD CASES)

SPECIES	CALIFORNIA		WASHINGTON AND OREGON		ATLANTIC COAST, HAWAII, AND TERRITORIES		TOTAL	
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
ALBACORE:								
SOLID PACK. . .	963,518	$12,740,640	722,025	$10,766,892	1,831,797	$24,334,754	3,517,340	$47,842,286
CHUNKS.	815,585	10,626,949	118,106	2,422,802	1,029,810	13,086,866	1,963,501	26,136,617
FLAKES AND GRATED	199,603	1,483,841	95,161	754,887	206,661	1,536,962	501,425	3,775,690
TOTAL . . .	1,978,706	24,851,430	935,292	13,944,581	3,068,268	38,958,582	5,982,266	77,754,593
LIGHT MEAT:								
SOLID PACK. . .	686,754	9,513,935	2,795	33,710	312,519	3,620,988	1,002,068	13,168,633
CHUNKS.	6,102,705	74,098,276	553,107	5,356,670	3,296,617	41,621,728	9,952,429	121,076,674
FLAKES AND GRATED	524,464	3,891,500	12,089	84,623	215,687	1,608,542	752,240	5,584,665
TOTAL . . .	7,313,923	87,503,711	567,991	5,475,003	3,824,823	46,851,258	11,706,737	139,829,972
GRAND TOTAL. . .	9,292,629	112,355,141	1,503,283	19,419,584	6,893,091	85,809,840	17,689,003	217,584,565

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT NO. 1/2 TUNA CANS TO THE CASE, EACH CONTAINING 7 OUNCES NET WEIGHT OF SOLID PACK, 6-1/2 OUNCES NET WEIGHT OF CHUNKS, AND 6 OUNCES NET WEIGHT OF FLAKES OR GRATED. THE PACK OF DIETETIC TUNA IS INCLUDED IN THESE TOTALS. TUNA WERE CANNED IN 12 PLANTS IN CALIFORNIA, 7 PLANTS IN OREGON, 6 PLANTS IN WASHINGTON, 4 PLANTS IN PUERTO RICO, 2 PLANTS EACH IN MARYLAND AND AMERICAN SAMOA, AND 1 PLANT EACH IN MAINE AND HAWAII. DATA ON THE PACK OF TUNA SPECIALTIES CAN BE FOUND IN THE TABLE "PACK OF MISCELLANEOUS FISHERY PRODUCTS". THE PACK OF TUNA FOR ANIMAL FOOD IS NOT INCLUDED IN THE ABOVE TABLE.

PACK OF TUNA, BY CAN SIZES, 1964

CAN AND CASE SIZE	ACTUAL CASES	VALUE
4 POUND . . . . (12 CANS)	333,173	$8,306,857
1 POUND . . . . (48 CANS)	540,993	12,218,088
1/2 POUND . . . . (48 CANS)	13,840,056	167,006,032
1/4 POUND . . . . (48 CANS)	1,066,967	9,977,385
4 OUNCES. . . . . (100 CANS)	77,924	1,245,473
9-1/4 OUNCES. . . . . (24 CANS)	2,067,101	18,761,585
OTHER SIZES (CONVERTED TO STANDARD CASES)	6,726	69,145
TOTAL	17,932,940	217,584,565

PACK OF TUNA, BY AREAS AND STATES, 1964

(STANDARD CASES)

AREA AND STATE	CASES	VALUE	AREA AND STATE	CASES	VALUE
ATLANTIC COAST, MAINE AND MARYLAND	696,340	$7,170,091	OTHER:		
PACIFIC COAST:			HAWAII AND AMERICAN SAMOA. .	1,351,855	$17,476,170
WASHINGTON.	523,014	5,125,179	PUERTO RICO.	4,844,896	61,163,579
OREGON.	980,269	14,294,405	TOTAL.	6,196,751	78,639,749
CALIFORNIA.	9,292,629	112,355,141			
TOTAL	10,795,912	131,774,725	GRAND TOTAL.	17,689,003	217,584,565

PACK OF TUNALIKE FISH, 1964

SPECIES	STANDARD CASES	VALUE
BONITO, SOLID PACK, CHUNKS AND FLAKES OR GRATED	24,674	$177,062

NOTE:--"STANDARD CASES" REPRESENT THE EQUIVALENT OF FORTY-EIGHT NO. 1/2 TUNA CANS TO THE CASE, EACH CONTAINING 7 OUNCES NET WEIGHT OF SOLID PACK, 6-1/2 OUNCES NET WEIGHT OF CHUNKS, AND 6 OUNCES NET WEIGHT OF FLAKES OR GRATED. TUNALIKE FISHES WERE CANNED IN 5 PLANTS IN CALIFORNIA.

PACK OF ALEWIVES, 1964

STATE AND NUMBER OF PLANTS	STANDARD CASES	VALUE
MARYLAND (1), AND NORTH CAROLINA (2)	9,547	$44,235
VIRGINIA (5)	65,034	256,167
TOTAL (8)	74,581	300,402

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS OF 15 OUNCES EACH.

PACK OF MACKEREL, 1964

ITEM	STANDARD CASES	VALUE
JACK MACKEREL:		
NATURAL 1/	735,774	$4,500,868
IN TOMATO SAUCE 2/	84,780	723,988
TOTAL	820,554	5,224,856
PACIFIC MACKEREL, NATURAL	250,269	1,535,184
GRAND TOTAL	1,070,823	6,760,040

1/ INCLUDES A SMALL PRODUCTION PACKED IN CHILI SAUCE.

2/ INCLUDES A SMALL PRODUCTION PACKED IN HOT SAUCE.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS OF 15 OUNCES EACH. MOST OF THE PACK WAS CANNED IN 15 OUNCE CANS. MACKEREL WERE CANNED IN 9 PLANTS IN CALIFORNIA. A SMALL PACK OF ATLANTIC MACKEREL IS INCLUDED IN THE TABLE "PACK OF MISCELLANEOUS FISHERY PRODUCTS".

PACK OF SHAD, 1964

STATE AND NUMBER OF PLANTS	STANDARD CASES	VALUE
OREGON (4), AND WASHINGTON (1)	1,235	$10,886

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS OF 15 OUNCES EACH.

PACK OF ANIMAL FOOD FROM FISHERY PRODUCTS, 1964

STATE AND NUMBER OF PLANTS	STANDARD CASES	VALUE
MAINE (2), MASSACHUSETTS (2)	1,485,164	$8,003,003
NEW JERSEY (1), PENNSYLVANIA (3)	80,478	287,030
MARYLAND (2), VIRGINIA (2), AND NORTH CAROLINA (1)	120,949	875,980
MISSISSIPPI (4)	2,383,939	8,478,585
ILLINOIS (2), WISCONSIN (2)	207,698	1,071,624
OHIO (1), KANSAS (1), AND NEBRASKA (1)	70,261	245,886
WASHINGTON (4)	89,987	595,354
OREGON (6)	384,721	2,380,772
CALIFORNIA (15)	1,903,847	15,379,334
HAWAII (1), AMERICAN SAMOA (2)	102,502	1,090,856
PUERTO RICO (4)	512,124	5,062,276
TOTAL (56)	7,341,670	43,470,700

CAN CONTENTS AND CAN SIZE	ACTUAL CASES	VALUE
6 OUNCES NET (48 CANS)	195,900	$591,491
6-1/2 OUNCES NET (48 CANS)	54,980	211,002
8 OUNCES NET (48 CANS)	4,996,929	20,259,000
15 OUNCES NET (48 CANS)	2,338,713	9,749,497
15-1/2 OUNCES NET (48 CANS)	1,648,084	6,361,437
16 OUNCES NET (48 CANS)	736,405	4,636,284
OTHER SIZES CONVERTED TO STANDARD CASES (16 OUNCES NET-48 CANS)	221,878	1,661,989
TOTAL	10,192,889	43,470,700

NOTE:--EACH STANDARD CASE CONTAINS 10 OR MORE POUNDS OF FISH. AN ADDITIONAL PACK (4,001,215 STANDARD CASES VALUED AT $17,335,586) HAD LESS THAN 10 POUNDS OF FISH PER STANDARD CASE AND IS NOT INCLUDED IN THE ABOVE PACK OF 7,341,670 STANDARD CASES. "STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS, EACH CONTAINING 16 OUNCES.

PACK OF FISH ROE AND CAVIAR, 1964

PRODUCT AND NUMBER OF PLANTS	STANDARD CASES	VALUE	STATES OF PRODUCTION AND NUMBER OF PLANTS
ALEWIFE ROE (14)	44,988	$577,950	MARYLAND (1), VIRGINIA (9), AND NORTH CAROLINA (4)
SHAD ROE (5)	670	38,592	CALIFORNIA (1) AND OREGON (4)
SALMON CAVIAR (4)	5,952	549,329	NEW YORK (4)
GROUNDFISH ROE (1), WHITEFISH CAVIAR (4), STURGEON CAVIAR (2), AND LUMPFISH CAVIAR (2)	14,780	1,598,434	MASSACHUSETTS (1), NEW YORK (4), AND WISCONSIN (1)
TOTAL EDIBLE ROE AND CAVIAR (25) 1/	66,390	2,764,305	
SALMON EGGS FOR BAIT (9)	21,906	2,162,995	WASHINGTON (9)
GRAND TOTAL (34) 1/	88,296	4,927,300	

1/ EXCLUSIVE OF DUPLICATION.
NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS, EACH CONTAINING 16 OUNCES.

PACK OF FISH ROE AND CAVIAR, BY STATES, 1964

STATE AND NUMBER OF PLANTS	STANDARD CASES	VALUE
MASSACHUSETTS (1) AND NEW YORK (4)	19,763	$2,082,252
MARYLAND (1) AND VIRGINIA (9)	36,438	474,250
NORTH CAROLINA (4)	8,550	103,700
WASHINGTON (9)	21,906	2,162,995
OREGON (4), CALIFORNIA (1), AND WISCONSIN (1)	1,639	104,103
TOTAL (34)	88,296	4,927,300

PACK OF CRAB MEAT, 1964

STATE AND NUMBER OF PLANTS	SPECIES	STANDARD CASES	VALUE
ATLANTIC AND GULF STATES: MAINE (1), NORTH CAROLINA (1), SOUTH CAROLINA (1), ALABAMA (1), MISSISSIPPI (3), AND LOUISIANA (1)	BLUE 1/	49,848	$1,143,420
TOTAL (8)		49,848	1,143,420
PACIFIC STATES: WASHINGTON (5) AND OREGON (1)	DUNGENESS AND KING	35,477	1,000,104
ALASKA (8)	DUNGENESS	15,498	551,680
ALASKA (10)	KING	235,970	5,941,260
TOTAL, EXCLUSIVE OF DUPLICATION (22)		286,945	7,493,044
GRAND TOTAL (30)		336,793	8,636,464

CAN CONTENTS AND CASE SIZE	ACTUAL CASES	VALUE
5 OUNCES NET (24 CANS)	38,071	$531,620
6-1/2 OUNCES NET (48 CANS)	56,511	1,401,705
7-1/2 OUNCES NET (24 CANS)	340,834	5,055,771
15 OUNCES NET (24 CANS)	54,905	1,539,830
OTHER SIZES CONVERTED TO STANDARD CASES	5,664	107,538
TOTAL	495,985	8,636,464

1/ INCLUDES A SMALL QUANTITY OF ROCK CRABS PACKED IN MAINE.
NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS TO THE CASE, EACH CONTAINING 6-1/2 OUNCES.

PACK OF CLAMS AND CLAM PRODUCTS, 1964

(STANDARD CASES)

SPECIES	WHOLE AND MINCED		CHOWDER AND JUICE		TOTAL	
	CASES	VALUE	CASES	VALUE	CASES	VALUE
CLAMS:						
HARD, SOFT AND SURF.	577,418	$6,662,543	1,722,318	$11,262,788	2,299,736	$17,925,331
RAZOR.	1,151	31,171	-	-	1,151	31,171
TOTAL.	578,569	6,693,714	1,722,318	11,262,788	2,300,887	17,956,502

NOTE:--CLAMS WERE CANNED IN 9 PLANTS IN WASHINGTON, 8 PLANTS IN NEW JERSEY, 6 PLANTS IN ALASKA, 5 PLANTS IN MAINE, 4 PLANTS IN NEW YORK, 2 PLANTS EACH IN MASSACHUSETTS, PENNSYLVANIA, AND OREGON, AND 1 PLANT EACH IN RHODE ISLAND, CONNECTICUT, DELAWARE, AND MARYLAND. "STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT NO. 1 PICNIC CANS, EACH CAN OF WHOLE OR MINCED CLAMS CONTAINING 5 OUNCES OF MEAT, DRAINED WEIGHT; AND EACH CAN OF CHOWDER, JUICE, BROTH, BOUILLON, OR NECTAR 10 OUNCES NET CONTENT. THE PACK OF CLAMS CANNED IN THE SHELL IS NOT INCLUDED IN THIS TABLE.

CLAM PRODUCTION, BY TYPE OF PACK, 1964

PRODUCT AND NUMBER OF PLANTS	STANDARD CASES	POUNDS	VALUE
CLAMS:			
WHOLE (8).	15,426	231,390	$231,165
MINCED (23).	563,143	8,447,145	6,462,549
CHOWDER (18)	1,600,867	48,026,010	10,676,125
JUICE (INCLUDES BOUILLON, BROTH, AND NECTAR) (12). . . .	121,451	3,643,530	586,663
TOTAL 1/ (42).	2,300,887	60,348,075	17,956,502

1/ EXCLUSIVE OF DUPLICATION.

PACK OF OYSTERS, 1964

STATE AND NUMBER OF PLANTS	STANDARD CASES	VALUE
ATLANTIC AND GULF STATES:		
SOUTH CAROLINA (2), ALABAMA (1)	53,574	$614,417
LOUISIANA (9).	197,789	2,344,790
MISSISSIPPI (10)	108,544	1,424,196
TOTAL (22)	359,907	4,383,403
PACIFIC STATES:		
WASHINGTON (5), OREGON (1) . .	62,354	908,277
GRAND TOTAL (28)	422,261	5,291,680

CAN CONTENTS AND CASE SIZE	ACTUAL CASES	VALUE
ATLANTIC AND GULF STATES:		
4-2/3 OUNCES (24 CANS). . . .	641,916	$3,906,039
6-1/2 OUNCES (24 CANS). . . .	43,138	362,176
PACIFIC STATES:		
4-2/3 OUNCES (24 CANS). . . .	31,873	266,269
6-1/2 OUNCES (24 CANS). . . .	66,652	642,008
OTHER SIZES CONVERTED TO STANDARD CASES	8,907	115,188
GRAND TOTAL	792,486	5,291,680

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS TO THE CASE, EACH CAN CONTAINING 4-2/3 OUNCES OF OYSTER MEATS.

PACK OF SHRIMP, 1964

STATE AND NUMBER OF PLANTS	STANDARD CASES	VALUE
GULF STATES:		
MISSISSIPPI (9)	81,953	$1,747,108
LOUISIANA (14)	505,903	10,181,626
ALABAMA (1), TEXAS (2)	14,354	266,792
TOTAL (26)	602,210	12,195,526
PACIFIC STATES:		
WASHINGTON (2), OREGON (1)	6,618	105,874
ALASKA (4)	40,504	684,450
TOTAL (7)	47,122	790,324
GRAND TOTAL (33)	649,332	12,985,850

CAN CONTENTS AND CASE SIZE	ACTUAL CASES	VALUE
4-1/2 OUNCES (24 CANS)	1,157,105	$10,478,103
5 OUNCES (24 CANS)	195,915	1,891,715
OTHER SIZES CONVERTED TO STANDARD CASES	30,676	616,032
TOTAL	1,383,696	12,985,850

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS TO THE CASE, EACH CONTAINING 5 OUNCES OF SHRIMP MEATS.

PACK OF MISCELLANEOUS FISHERY PRODUCTS, 1964

PRODUCT	STANDARD CASES	VALUE	LOCATION AND NUMBER OF PLANTS
FISH:			
ANCHOVY PASTE	1,068	$73,235	NEW YORK (2), MARYLAND (1), MICHIGAN (1)
CAKES (PRINCIPALLY GROUNDFISH)	60,372	845,087	MAINE (1), MASSACHUSETTS (1), NEW JERSEY (1)
GEFILTEFISH	311,954	5,095,732	NEW YORK (2), NEW JERSEY (3)
HERRING SPECIALTIES (TIDBITS, SNACKS, AND SPREADS)	8,100	100,741	MAINE (3)
SALMON:			
SMOKED	1,840	147,120	WASHINGTON (16), OREGON (3), CALIFORNIA (1), ALASKA (14)
SPECIALTIES (SPREADS AND SALTED LIVERS)	196	9,994	MAINE (1), WASHINGTON (2)
STURGEON, SMOKED AND SPREADS	1,040	61,655	WASHINGTON (10), OREGON (5)
TUNA SPECIALTIES:			
SMOKED, CREAMED, AND SPREADS	8,213	98,796	MAINE (1), WASHINGTON (4), OREGON (1), CALIFORNIA (1)
WITH NOODLES	48,341	888,894	PENNSYLVANIA (1), CALIFORNIA (2)
OTHER (HALIBUT, ATLANTIC MACKEREL, MULLET, WAHOO, WHITEFISH, SALTED CODFISH, AND FISH APPETIZERS, BITES, CHOWDERS, IN CREAMS, FLAKES, SPREADS, AND SAUCES) AND OTHER SPECIALTIES	89,599	1,198,228	MAINE (4), MASSACHUSETTS (1), NEW JERSEY (3), FLORIDA (2), MICHIGAN (1), WASHINGTON (1), CALIFORNIA (1), AMERICAN SAMOA (2), ALASKA (2)
TOTAL FISH	530,723	8,519,482	
SHELLFISH:			
CRAB SPECIALTIES (BISQUE, COCKTAILS, DEVILED, DIPS, SMOKED, SOUPS, AND SPREADS)	16,459	256,537	MAINE (1), NEW JERSEY (1), PENNSYLVANIA (1), MARYLAND (1), SOUTH CAROLINA (1), LOUISIANA (1), WASHINGTON (2), OREGON (2)
LOBSTER SPECIALTIES (MEAT, DEVILED, DIPS, NEWBURG, SAUCES, SOUPS, SPREADS, AND STEWS)	15,197	301,562	MAINE (1), CONNECTICUT (1), NEW JERSEY (2), PENNSYLVANIA (1), MARYLAND (1)
SHRIMP SPECIALTIES (COCKTAILS, DIPS, PICKLED SAUCE, SOUPS, SPREADS, AND STEWS)	12,235	245,637	MAINE (1), NEW JERSEY (2), PENNSYLVANIA (1), MARYLAND (1), LOUISIANA (4), WASHINGTON (1), OREGON (1)
CLAM SPECIALTIES (CAKES, DIPS, FRITTERS, CRISPS, A LA KING, SPREADS IN THE SHELL, SMOKED, SOUPS, STEWS, AND SAUCES)	65,350	1,189,605	MAINE (2), CONNECTICUT (2), NEW YORK (1), NEW JERSEY (2), PENNSYLVANIA (2), DELAWARE (1), MARYLAND (2), WASHINGTON (4)
CONCH MEAT	5,597	182,795	NEW YORK (1), NEW JERSEY (1), DELAWARE (1)
OYSTER SPECIALTIES:			
SMOKED	307	27,949	WASHINGTON (7)
STEW	113,169	2,090,954	SOUTH CAROLINA (1), WASHINGTON (4), OREGON (1)
BISQUE, SOUPS, CASSEROLES AND SPREADS	2,650	48,211	NEW JERSEY (1), PENNSYLVANIA (1), LOUISIANA (2), WASHINGTON (3)
SQUID	214,649	887,484	NEW YORK (1), NEW JERSEY (1), CALIFORNIA (7)
TURTLE MEAT, SOUPS AND STEWS	17,043	271,155	NEW JERSEY (1), PENNSYLVANIA (2), FLORIDA (2), LOUISIANA (3), OHIO (1)
OTHER SPECIALTIES (CONCH CHOWDER, CRAWFISH BISQUE, GUMBO, MUSSELS WHOLE AND IN BISQUE, AND UNCLASSIFIED SHELLFISH IN SOUPS, CHOWDERS, ETC.)	13,327	162,405	MAINE (1), CONNECTICUT (1), NEW YORK (1), NEW JERSEY (1), FLORIDA (2), LOUISIANA (3)
TOTAL SHELLFISH	475,983	5,664,294	
GRAND TOTAL	1,006,706	14,183,776	

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS EACH CONTAINING 16 OUNCES NET WEIGHT.

INDUSTRIAL FISHERY PRODUCTS, 1964

The production of industrial fishery products by 160 plants in the United States, American Samoa, and Puerto Rico was valued at $69.9 million--an increase of more than $1.3 million compared with 1963.

Marine animal scrap and meal:--The production of 235,252 tons was 8 percent less than the 255,907 tons manufactured in 1963 and the smallest production since 1952. Menhaden scrap and meal (160,349 tons) was nearly 24,000 tons below the 1963 production. In 1964, menhaden landings declined along the Atlantic Coast and in the Gulf of Mexico, excepting only the Chesapeake Area and the West Coast of Florida. However, imports of meal (439,143 tons) were received in record volume and the supply, 674,395 tons (domestic production plus imports) was the largest in history.

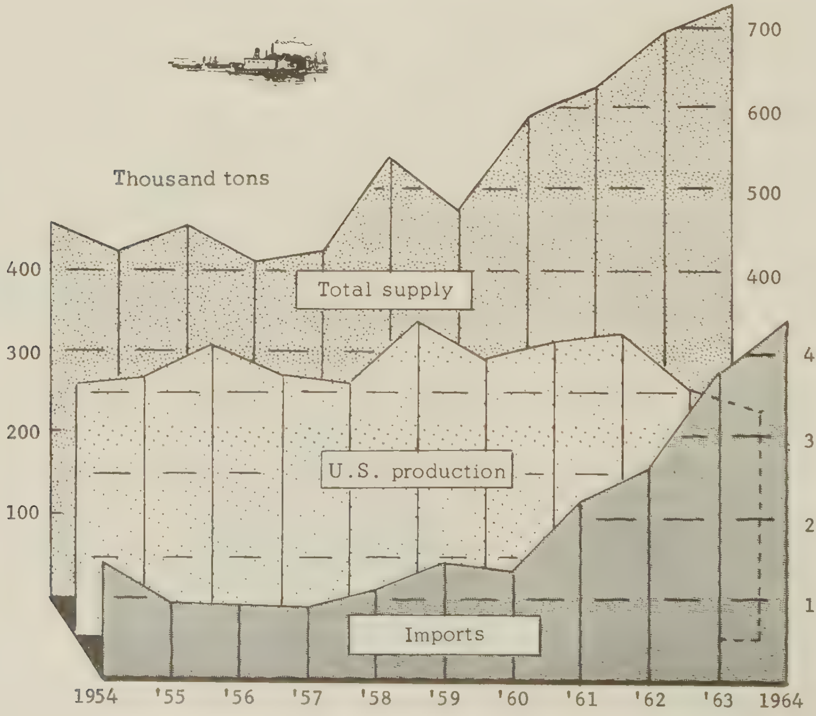
Marine animal oil:--Domestic production of marine animal oil (180.2 million pounds) was 3 percent less than the 185.8 million manufactured in 1963. Despite the decline in menhaden landings, the production of menhaden oil (157.7 million pounds) accounted for 88 percent of the total fish oil produced in 1964. Nearly 151.4 million pounds of fish oil were exported in 1964.

Fish solubles:--There were 93,296 tons of solubles produced in 1964--7 percent less than in the previous year. There was no production of homogenized condensed fish in 1964.

Other industrial products:--Products from oyster shells and buttons from fresh-water and marine mollusk shells were valued at $6.2 million in 1964. Compared with the previous year, this was a decrease of more than $808,000.

Other industrial items produced included agar-agar, fish feed pellets and animal feeds, Irish moss extract, kelp products, fish leather, liquid fertilizer, shell lime and chips, pearl essence, and crab shells valued at $16.7 million. In the previous year, other industrial products were valued at $13.8 million.

U. S. SUPPLY OF FISH MEAL AND SOLUBLES, 1954-64



SUMMARY OF PRODUCTION, BY COMMODITIES, 1964

PRODUCTS	NUMBER OF PLANTS	UNIT	QUANTITY	VALUE
MARINE ANIMAL SCRAP AND MEAL	109	TONS	235,252	$28,038,858
MARINE ANIMAL OILS:				
BODY OIL	74	THOUSAND POUNDS	180,175	13,272,991
LIVER OIL	2	DO	23	24,000
FISH SOLUBLES	36	TONS	93,296	5,662,194
MARINE PEARL SHELL BUTTONS	6	GROSS	406,917	1,004,344
MUSSEL SHELL BUTTONS	7	DO	226,625	272,281
OYSTER SHELL GRIT AND LIME ("LIVE AND REEF SHELLS")	14	TONS	362,543	4,914,924
MISCELLANEOUS INDUSTRIAL PRODUCTS	22	-	-	16,721,404
TOTAL	1/ 160	-	-	69,910,996

1/ EXCLUSIVE OF DUPLICATION.

NOTE:--LIST OF MANUFACTURERS OF FISHERY INDUSTRIAL PRODUCTS BY INDIVIDUAL COMMODITIES MAY BE OBTAINED FROM THE OFFICE OF INFORMATION, U.S. FISH AND WILDLIFE SERVICE, WASHINGTON, D.C. 20240.

SUMMARY OF PRODUCTION, BY STATES, 1964

AREA AND STATE	VALUE
MAINE	$6,038,127
MASSACHUSETTS AND CONNECTICUT	1,466,697
NEW YORK	2,324,480
NEW JERSEY	2,554,163
PENNSYLVANIA AND DELAWARE	767,549
MARYLAND	1,491,325
VIRGINIA	7,910,302
NORTH CAROLINA	3,943,604
GEORGIA, FLORIDA, AND ALABAMA	2,332,369
MISSISSIPPI	5,281,701
LOUISIANA	15,084,158
TEXAS	2,805,554
ILLINOIS, IOWA, AND WISCONSIN	325,074
ALASKA	1,048,500
WASHINGTON	630,854
OREGON	712,662
CALIFORNIA	14,466,519
AMERICAN SAMOA AND PUERTO RICO	727,358
TOTAL	69,910,996

PLANTS PRODUCING INDUSTRIAL FISHERY PRODUCTS, 1964

AREA AND STATE	NUMBER
NEW ENGLAND:	
MAINE	16
MASSACHUSETTS	5
CONNECTICUT	1
TOTAL	22
MIDDLE ATLANTIC:	
NEW YORK	4
NEW JERSEY	12
PENNSYLVANIA	2
DELAWARE	2
TOTAL	20
CHESAPEAKE:	
MARYLAND	8
VIRGINIA	14
TOTAL	22

AREA AND STATE	NUMBER
SOUTH ATLANTIC AND GULF:	
NORTH CAROLINA	15
GEORGIA	1
FLORIDA	8
ALABAMA	1
MISSISSIPPI	4
LOUISIANA	9
TEXAS	3
TOTAL	41
GREAT LAKES, WISCONSIN	2
MISSISSIPPI RIVER:	
ILLINOIS	1
IOWA	8
TOTAL	9
PACIFIC COAST:	
ALASKA	2
WASHINGTON	9
OREGON	5
CALIFORNIA	23
TOTAL	39
AMERICAN SAMOA	2
PUERTO RICO	3
GRAND TOTAL	160

NUMBER OF PLANTS PRODUCING INDUSTRIAL FISHERY PRODUCTS, 1964

PRODUCTS	ATLANTIC AND GULF COAST 1/	PACIFIC COAST 2/	TOTAL
	NUMBER	NUMBER	NUMBER
SCRAP AND MEAL, DRIED:			
ALEWIFE	5	-	5
CRAB	15	2	17
OCEAN PERCH	1	-	1
HERRING, SEA	8	3	11
MENHADEN	31	-	31
SARDINE, PACIFIC	-	3	3
SHRIMP	3	-	3
TUNA AND MACKEREL	-	17	17
WHALE	-	3	3
UNCLASSIFIED	20	11	31
OIL:			
BODY:			
ALEWIFE	6	-	6
OCEAN PERCH	1	-	1
HERRING, SEA	6	3	9
MENHADEN	31	-	31
SALMON:			
EDIBLE	-	3	3
INDUSTRIAL	-	1	1
SARDINE, PACIFIC	-	5	5
TUNA AND MACKEREL	-	12	12
WHALE:			
SPERM	-	3	3
OTHER	-	2	2
UNCLASSIFIED	9	5	14
LIVER OILS	1	1	2
MUSSEL SHELL PRODUCTS (FRESH-WATER):			
BUTTONS	7	-	7
LIME AND COLORED CHIPS	3	-	3
OYSTER SHELL PRODUCTS:			
CRUSHED SHELL FOR POULTRY FEED	9	5	14
SHELL LIME:			
BURNED	3	-	3
UNBURNED	6	4	10
MARINE PEARL SHELL BUTTONS	6	-	6
AGAR-AGAR	-	1	1
FISH SOLUBLES	28	8	36
IRISH MOSS EXTRACTS AND STABILIZER	2	-	2
KELP PRODUCTS	1	3	4
LIQUID AND DRY FERTILIZER	-	3	3
PEARL ESSENCE AND NOVELTIES	-	7	7
CRAB SHELLS (FOR DEVILED CRAB MEAT)	3	-	3
ANIMAL FEEDS	-	1	1
FISH FEED PELLETS	-	3	3
LEATHER PRODUCTS	1	-	1
TOTAL, EXCLUSIVE OF DUPLICATION	117	43	160

1/ INCLUDES FIRMS IN THE MISSISSIPPI RIVER AND GREAT LAKES AREA.

2/ INCLUDES AMERICAN SAMOA AND PUERTO RICO.

PRODUCTION OF MARINE ANIMAL SCRAP AND MEAL, 1964

PRODUCT	ATLANTIC AND GULF COASTS		PACIFIC COASTS AND TERRITORIES		TOTAL	
	TONS	VALUE	TONS	VALUE	TONS	VALUE
DRIED SCRAP AND MEAL:						
ALEWIFE.	1,651	$205,569	-	-	1,651	$205,569
CRAB	1/9,723	1/439,440	(1)	(1)	9,723	439,440
HERRING.	5,245	605,122	3,636	$497,400	8,881	1,102,522
MENHADEN	160,349	20,001,220	-	-	160,349	20,001,220
SHRIMP	377	15,430	-	-	377	15,430
TUNA AND MACKEREL.	-	-	21,113	2,229,443	21,113	2,229,443
WHALE.	-	-	1,664	155,359	1,664	155,359
UNCLASSIFIED	2/24,002	2/3,089,375	3/7,492	3/800,500	31,494	3,889,875
TOTAL.	201,347	24,356,156	33,905	3,682,702	235,252	28,038,858

1/ A SMALL WEST COAST PRODUCTION IS INCLUDED WITH THE EAST COAST PRODUCTION.

2/ INCLUDES OCEAN PERCH MEAL AND SCRAP.

3/ INCLUDES PACIFIC SARDINE AND SALMON MEAL AND SCRAP.

PRODUCTION OF MARINE ANIMAL OIL, 1964

PRODUCT	ATLANTIC AND GULF COASTS		PACIFIC COAST AND PUERTO RICO		TOTAL	
	THOUSAND POUNDS	VALUE	THOUSAND POUNDS	VALUE	THOUSAND POUNDS	VALUE
BODY OIL:						
ALEWIFE.	1/805	1/$57,730	-	-	805	$57,730
HERRING.	2,461	203,555	7,893	$581,600	10,354	785,155
MENHADEN	157,730	11,734,935	-	-	157,730	11,734,935
SALMON	-	-	491	43,115	491	43,115
TUNA AND MACKEREL.	-	-	4,816	272,178	4,816	272,178
WHALE:						
SPERM.	-	-	401	25,684	401	25,684
OTHER.	-	-	2,759	169,926	2,759	169,926
UNCLASSIFIED	2/1,816	2/131,893	3/1,003	3/52,375	2,819	184,268
TOTAL.	162,812	12,128,113	17,363	1,144,878	180,175	13,272,991
LIVER OIL (TUNA, SHARK, MIXED) .	(4)	(4)	23	24,000	23	24,000
GRAND TOTAL.	162,812	12,128,113	17,386	1,168,878	180,198	13,296,991

1/ INCLUDES PRODUCTION FROM THE GREAT LAKES.

2/ INCLUDES OCEAN PERCH OIL.

3/ INCLUDES ANCHOVY AND SARDINE OIL.

4/ A SMALL EAST COAST PRODUCTION IS INCLUDED WITH THE WEST COAST PRODUCTION.

NOTE:--TO CONVERT POUNDS OF OIL TO GALLONS, DIVIDE BY 7.75.

PRODUCTION OF FISH SOLUBLES, 1964

PRODUCT, STATE, AND NUMBER OF PLANTS	TONS	VALUE
FISH SOLUBLES:		
MASSACHUSETTS (2), NEW YORK (1), NEW JERSEY (3).	10,318	$595,786
VIRGINIA (5), WISCONSIN (1).	22,087	1,310,575
NORTH CAROLINA (4), EAST COAST OF FLORIDA (1).	7,908	431,250
MISSISSIPPI (3), TEXAS (1)	13,728	819,790
LOUISIANA (7).	22,270	1,334,413
OREGON (1), CALIFORNIA (7)	16,985	1,170,380
TOTAL (36)	93,296	5,662,194

NOTE:--INCLUDES MENHADEN SOLUBLES. NO HOMOGENIZED CONDENSED FISH PRODUCTION IN 1964.

PRODUCTION OF MENHADEN PRODUCTS, 1964

STATE AND NUMBER OF PLANTS	DRY SCRAP AND MEAL		OIL		SOLUBLES		TOTAL
	TONS	VALUE	POUNDS	VALUE	TONS	VALUE	VALUE
NEW YORK (1), NEW JERSEY (3), DELAWARE (2)	13,133	$1,589,257	16,095,990	$1,075,433	3,656	$210,856	$2,875,546
VIRGINIA (5)	32,804	4,201,269	23,944,400	1,737,616	21,176	1,258,672	7,197,557
NORTH CAROLINA (8), FLORIDA (1). .	19,671	2,600,133	11,982,926	1,003,525	7,906	431,250	4,034,908
MISSISSIPPI (3).	24,231	2,956,182	22,183,926	1,574,343	11,777	706,632	5,237,157
LOUISIANA (7), TEXAS (1)	70,510	8,654,379	83,522,292	6,344,018	24,221	1,447,571	16,445,968
TOTAL (31)	160,349	20,001,220	157,729,534	11,734,935	68,738	4,054,981	35,791,136

NOTE:--INCLUDES A SMALL QUANTITY OF OTHER SPECIES.

PRODUCTION OF OYSTER SHELL PRODUCTS, 1964

("LIVE AND REEF SHELLS")

STATE AND NUMBER OF PLANTS	POULTRY GRIT		LIME, BURNED AND UNBURNED		TOTAL	
	TONS	VALUE	TONS	VALUE	TONS	VALUE
NEW JERSEY (1), PENNSYLVANIA (1), MARYLAND (2), VIRGINIA (3). . . .	63,593	$1,154,279	33,202	$283,606	96,795	$1,437,885
FLORIDA (1), ALABAMA (1), TEXAS (2)	223,938	3,146,289	32,887	223,202	256,825	3,369,491
WASHINGTON (3), OREGON (1), CALIFORNIA (1).	7,359	92,677	1,564	14,871	8,923	107,548
TOTAL (16)	294,890	4,393,245	67,653	521,679	362,543	4,914,924

PRODUCTION OF FRESH-WATER MUSSEL SHELL BUTTONS, 1964

STATE AND NUMBER OF PLANTS	BUTTONS	
	GROSS	VALUE
IOWA (6), PENNSYLVANIA (1)	226,625	$272,281

NOTE:--VALUE OF THE PRODUCTION OF MUSSEL SHELL LIME, DUST, AND COLORED CHIPS IS INCLUDED WITH MISCELLANEOUS FISHERY INDUSTRIAL PRODUCTS.

PRODUCTION OF MARINE PEARL SHELL BUTTONS, 1964

STATE AND NUMBER OF PLANTS	BUTTONS	
	GROSS	VALUE
CONNECTICUT (1), NEW YORK (1), PENNSYLVANIA (1).	111,300	$245,743
NEW JERSEY (3)	295,617	758,601
TOTAL (6).	406,917	1,004,344

PRODUCTION OF MISCELLANEOUS INDUSTRIAL FISHERY PRODUCTS, 1964

PRODUCT	STATE AND NUMBER OF PLANTS	VALUE
AGAR-AGAR.	CALIFORNIA (1).	$16,721,404
ANIMAL FEEDS AND FISH FEED PELLETS	WASHINGTON (2), OREGON (1).	
FISH FERTILIZER.	OREGON (1).	
IRISH MOSS EXTRACT AND STABILIZER.	MAINE (2)	
KELP PRODUCTS.	MAINE (1), CALIFORNIA (3)	
LEATHER PRODUCTS	NEW JERSEY (1).	
LIQUID FERTILIZER.	CALIFORNIA (2).	
MUSSEL SHELL LIME AND COLORED CHIPS. . . .	IOWA (2), ILLINOIS (1).	
PEARL ESSENCE AND NOVELTIES.	MAINE (6), MASSACHUSETTS (1).	
CRAB SHELLS (FOR DEVILED CRAB MEAT). . . .	FLORIDA (3)	

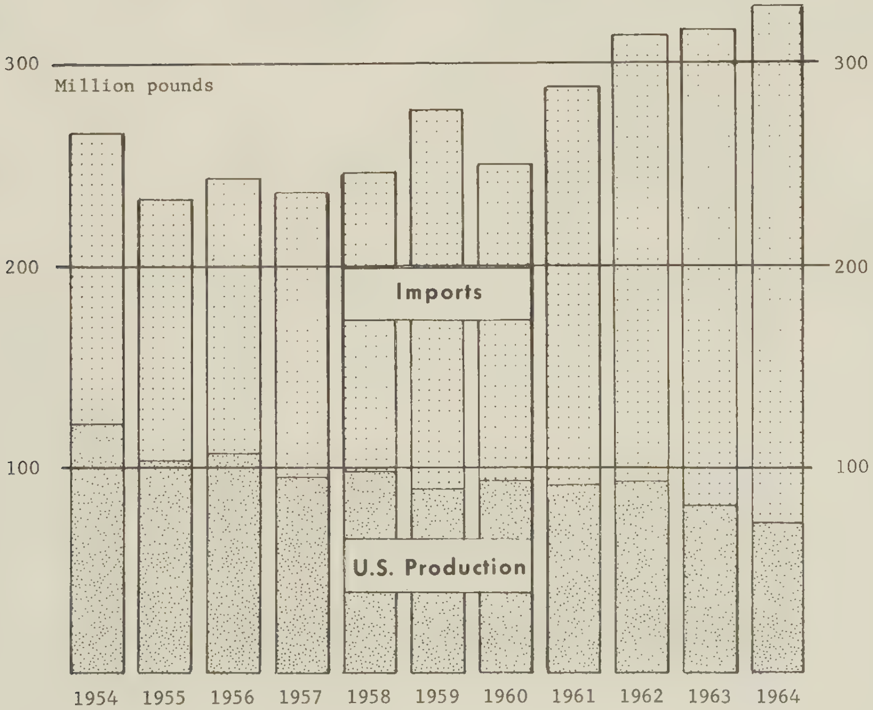
PACKAGED FISHERY PRODUCTS, 1964

The production of fresh and frozen packaged fillets and steaks in the United States, excluding Alaska and Hawaii, was 161.1 million pounds valued at $57.4 million--a decline of 4.9 million pounds and $97,000 compared with 1963.

Flounder fillets (48.6 million pounds), haddock fillets (37.3 million), and Atlantic ocean perch fillets (23.8 million pounds) continued to be the leading items. They accounted for 68 percent of the volume and 65 percent of the value. Cod fillets and halibut steaks were among other important leading items. The New England area continued to lead all other areas in the production of packaged fish with 66 percent of the total volume and 59 percent of the value.

Data on the production of packaged fish during 1964 have been published previously in Current Fishery Statistics No. 3776.

SUPPLY OF GROUNDFISH FILLETS, 1954-64



SUMMARY OF PRODUCTION OF PACKAGED FISH, 1964

ITEM	FILLETS		STEAKS		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FRESH	78,421,336	$29,491,506	155,176	$65,113	78,576,512	$29,556,619
FROZEN	71,250,701	22,209,074	11,294,129	5,597,969	82,544,830	27,807,043
TOTAL	149,672,037	51,700,580	11,449,305	5,663,082	161,121,342	57,363,662

PRODUCTION OF FRESH AND FROZEN PACKAGED FISH, BY SECTIONS, 1964

SPECIES	NEW ENGLAND		MIDDLE ATLANTIC		CHESAPEAKE, SOUTH ATLANTIC, AND GULF	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	-	-	-	-	68,000	$35,520
COD	5,817,493	$1,804,186	2,472,452	$1,124,724	-	-
CUSK	325,784	98,135	-	-	-	-
FLOUNDERS	32,695,650	10,486,641	4,918,980	2,743,073	436,500	212,900
GROUPERS	-	-	-	-	1,271,707	529,983
HADDOCK	36,285,015	13,201,592	1,045,593	508,027	-	-
HAKE	231,371	66,664	50,500	17,170	-	-
HALIBUT	641,110	285,243	-	-	-	-
KING MACKEREL	-	-	-	-	92,000	34,670
MACKEREL	24,475	7,111	-	-	-	-
OCEAN PERCH	23,814,523	6,324,175	-	-	-	-
POLLOCK	3,297,189	718,857	-	-	-	-
SALMON	57,490	43,330	-	-	-	-
SEA TROUT	-	-	-	-	101,501	46,620
SNAPPER, RED	-	-	-	-	494,663	340,329
SPANISH MACKEREL	-	-	-	-	966,820	329,271
SWORDFISH	252,280	114,236	-	-	-	-
WHITING	2,094,359	459,542	-	-	-	-
WOLFFISH	102,345	31,623	-	-	-	-
UNCLASSIFIED	23,836	35,754	44,000	14,460	470,887	270,047
TOTAL	105,662,920	33,677,089	8,531,525	4,407,454	3,902,078	1,799,340

SPECIES	GREAT LAKES AND MISSISSIPPI RIVER		PACIFIC COAST	
	POUNDS	VALUE	POUNDS	VALUE
CARP	1,590,000	$329,450	-	-
COD	-	-	1,825,986	$422,106
FLOUNDER	-	-	10,502,513	4,014,689
HALIBUT	-	-	8,676,829	4,117,406
HERRING, LAKE	33,750	9,008	-	-
LAKE TROUT	76,835	48,752	-	-
LINGCOD	-	-	1,450,813	350,884
OCEAN PERCH	-	-	5,533,465	1,283,117
PIKE OR PICKEREL	50,300	24,126	-	-
ROCKFISHES	-	-	4,170,341	918,046
SALMON	-	-	1,922,260	1,301,406
SAUGER	852,400	601,610	-	-
SEA BASS	-	-	175,219	81,731
SNAPPER, RED	76,900	87,240	-	-
SWORDFISH	-	-	911,446	491,655
WHITE BASS	178,078	89,696	-	-
WHITEFISH	377,612	281,008	-	-
YELLOW PERCH	3,066,850	1,917,428	-	-
YELLOW PIKE	1,379,503	1,040,449	-	-
UNCLASSIFIED	80,000	52,000	93,719	17,972
TOTAL	7,762,228	4,480,767	35,262,591	12,999,012

PRODUCTION OF PACKAGED FISH, BY METHOD OF PREPARATION, 1964

SPECIES	FILLETS			
	FRESH		FROZEN	
	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	-	-	68,000	$35,520
CARP	1,590,000	$329,450	-	-
COD	7,217,103	2,510,515	2,898,828	840,501
CUSK	256,763	77,436	69,021	20,699
FLOUNDERS	33,209,497	12,549,775	15,344,146	4,907,528
GROUPERS	192,417	86,828	294,612	130,799
HADDOCK	23,597,572	9,131,438	13,733,036	4,578,181
HAKE	267,081	80,884	14,790	2,950
HALIBUT	-	-	1,316,807	625,322
HERRING, LAKE	33,750	9,008	-	-
LAKE TROUT	53,145	35,130	23,690	13,622
LINGCOD	923,578	218,301	527,235	132,583
MACKEREL	24,475	7,111	-	-
OCEAN PERCH:				
ATLANTIC	428,003	121,463	23,386,520	6,202,712
PACIFIC	2,191,633	483,975	3,341,832	799,142
PIKE OR PICKEREL	50,300	24,126	-	-
POLLOCK	1,488,212	353,440	1,808,977	365,417
ROCKFISHES	2,707,576	587,095	1,462,765	330,951
SALMON	-	-	864,500	581,600
SAUGER	393,200	287,960	459,200	313,650
SEA BASS	-	-	175,219	81,731
SEA TROUT	-	-	101,501	46,620
SNAPPER, RED	60,128	67,747	374,635	283,142
SPANISH MACKEREL	-	-	966,820	329,271
WHITE BASS	117,578	61,106	60,500	28,590
WHITEFISH	306,652	235,032	70,960	45,976
WHITING	2,778	696	2,091,581	458,846
WOLFFISH	19,904	5,811	82,441	25,812
YELLOW PERCH	2,462,652	1,584,491	604,198	332,937
YELLOW PIKE	720,003	568,999	659,500	471,450
UNCLASSIFIED	107,336	73,689	449,387	223,522
TOTAL	78,421,336	29,491,506	71,250,701	22,209,074

SPECIES	STEAKS, FRESH AND FROZEN		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	-	-	68,000	$35,520
CARP	-	-	1,590,000	329,450
COD	-	-	10,115,931	3,351,016
CUSK	-	-	325,784	98,135
FLOUNDERS	-	-	48,553,643	17,457,303
GROUPERS	784,678	$312,356	1,271,707	529,983
HADDOCK	-	-	37,330,608	13,709,619
HAKE	-	-	281,871	83,834
HALIBUT	8,001,132	3,777,327	9,317,939	4,402,649
HERRING, LAKE	-	-	33,750	9,008
KING MACKEREL	92,000	34,670	92,000	34,670
LAKE TROUT	-	-	76,835	48,752
LINGCOD	-	-	1,450,813	350,884
MACKEREL	-	-	24,475	7,111
OCEAN PERCH:				
ATLANTIC	-	-	23,814,523	6,324,175
PACIFIC	-	-	5,533,465	1,283,117
PIKE OR PICKEREL	-	-	50,300	24,126
POLLOCK	-	-	3,297,189	718,857
ROCKFISHES	-	-	4,170,341	918,046
SALMON	1,115,250	763,136	1,979,750	1,344,736
SAUGER	-	-	852,400	601,610
SEA BASS	-	-	175,219	81,731
SEA TROUT	-	-	101,501	46,620
SNAPPER, RED	136,800	76,680	571,563	427,569
SPANISH MACKEREL	-	-	966,820	329,271
SWORDFISH	1,163,726	605,891	1,163,726	605,891
WHITE BASS	-	-	178,078	89,696
WHITEFISH	-	-	377,612	281,008
WHITING	-	-	2,094,359	459,542
WOLFFISH	-	-	102,345	31,623
YELLOW PERCH	-	-	3,066,850	1,917,428
YELLOW PIKE	-	-	1,379,503	1,040,449
UNCLASSIFIED	155,719	93,022	712,442	390,233
TOTAL	11,449,305	5,663,082	161,121,342	57,363,662

PRODUCTION OF FISH STICKS, 1964

MONTH	COOKED	RAW	TOTAL
	THOUSAND POUNDS	THOUSAND POUNDS	THOUSAND POUNDS
JANUARY	6,709	517	7,226
FEBRUARY	6,595	467	7,062
MARCH	6,417	546	6,965
APRIL	5,468	403	5,871
MAY	5,251	410	5,661
JUNE	3,700	521	4,221
JULY	3,398	417	3,815
AUGUST	5,675	635	6,310
SEPTEMBER	5,944	538	6,482
OCTOBER	6,683	346	7,029
NOVEMBER	5,749	404	6,153
DECEMBER	6,221	558	6,779
TOTAL	67,810	5,764	73,574
	THOUSAND DOLLARS	THOUSAND DOLLARS	THOUSAND DOLLARS
TOTAL VALUE-YEAR	27,997	1,989	29,986

NOTE:--A FISH STICK IS AN ELONGATED PIECE OF FISH FLESH (GENERALLY CUT FROM A BLOCK OF FILLETS) WEIGHING NOT LESS THAN 3/4 OF AN OUNCE AND NOT MORE THAN 1-1/4 OUNCES WITH THE LARGEST DIMENSION AT LEAST THREE TIMES THAT OF THE NEXT LARGEST DIMENSION.

PRODUCTION OF FISH PORTIONS, 1964

MONTH	BREADED			UNBREADED	TOTAL
	COOKED	RAW	TOTAL		
	THOUSAND POUNDS	THOUSAND POUNDS	THOUSAND POUNDS	THOUSAND POUNDS	THOUSAND POUNDS
JANUARY	1,540	7,079	8,619	258	8,877
FEBRUARY	1,742	6,335	8,077	420	8,497
MARCH	2,111	6,465	8,576	185	8,761
APRIL	1,950	5,961	7,911	105	8,016
MAY	1,722	5,731	7,453	168	7,621
JUNE	1,219	6,284	7,503	169	7,672
JULY	774	5,720	6,494	105	6,599
AUGUST	1,711	7,432	9,143	255	9,398
SEPTEMBER	2,544	7,157	9,701	129	9,830
OCTOBER	2,033	8,797	10,830	293	11,123
NOVEMBER	1,742	8,979	10,721	201	10,922
DECEMBER	1,868	6,876	8,744	253	8,997
TOTAL	20,956	82,816	103,772	2,541	106,313
	THOUSAND DOLLARS	THOUSAND DOLLARS	THOUSAND DOLLARS	THOUSAND DOLLARS	THOUSAND DOLLARS
TOTAL VALUE-YEAR	8,667	26,955	35,622	910	36,532

NOTE:--A FISH PORTION IS A PIECE OF FISH FLESH GENERALLY OF UNIFORM SIZE AND GENERALLY CUT FROM A BLOCK OF FILLETS. IT HAS A THICKNESS, INCLUDING THE BATTER, OF 3/8 OF AN INCH OR MORE, AND DOES NOT CONFORM TO THE DEFINITION OF A FISH STICK.

FROZEN FISHERY TRADE, 1964

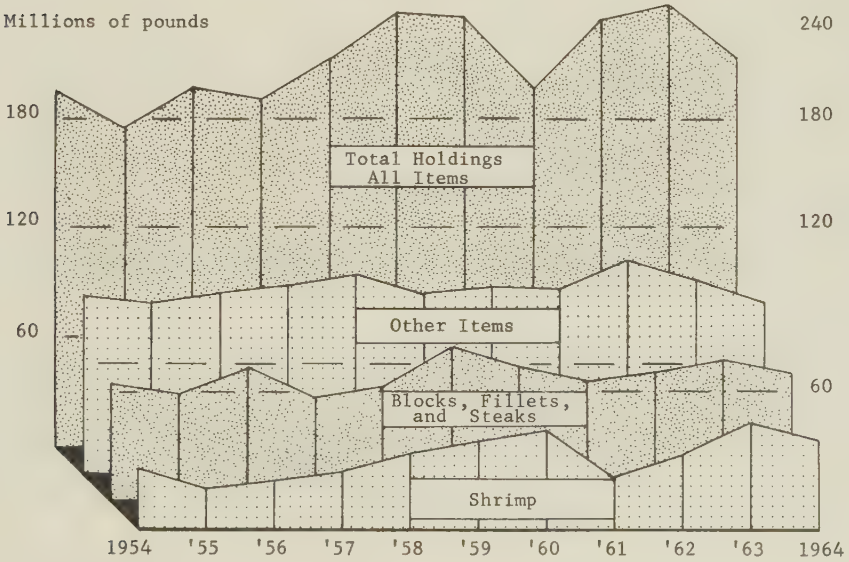
The 1964 production of frozen fish and shellfish by firms reporting monthly to the Bureau of Commercial Fisheries totaled 332.3 million pounds. Leading products frozen were shrimp (106.9 million pounds); bait and animal food (57.2); fillets and steaks consisting chiefly of ocean perch and haddock (48.3); whiting, headed and gutted (27.4); and dressed halibut (24.8 million pounds). An estimated 543.5 million pounds of fish and shellfish (live weight) were required to produce the 332.3 million pounds of frozen fishery items. Not included were freezings by cold storage plants not reporting to the Bureau and a considerable volume of frozen fillets and steaks produced by firms operating plate freezers at the end of fillet production lines. Data assembled in the packaged fish survey for 1964 indicate that about 21.9 million pounds (an estimated 67.6 million pounds, live weight) of fillets and steaks were frozen by these firms.

New England led all other areas in freezings with 125.8 million pounds, or 38 percent of the total, followed by the South Central, with 75.4 million pounds; South Atlantic, 41.3; Alaska, 40.1; and the Pacific area, 39.9 million pounds. The Middle Atlantic, North Central East, and North Central West accounted for the remainder.

Information on the freezings and holdings of fishery products for 1964 by firms supplying monthly data on their operations and a list of these firms were published previously in Current Fishery Statistics No. 3772. Data on freezings and holdings were also published in the preliminary monthly bulletin, Frozen Fish Report, and in the final monthly report, Frozen Fishery Products, which are also in the Current Fishery Statistics series.

HOLDINGS OF FROZEN FISHERY PRODUCTS, 1954 - 64

(ON DECEMBER 31)



SUMMARY OF FREEZINGS, BY MONTHS, 1964

(THOUSANDS OF POUNDS)

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
FISH	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
SALT-WATER:						
BLOCKS	1	156	67	103	170	179
FILLETS AND STEAKS:						
COD	45	46	94	253	245	214
FLOUNDER	171	80	119	500	920	866
HADDOCK	343	848	1,591	2,607	1,784	1,785
HALIBUT	-	-	-	15	878	213
OCEAN PERCH	316	993	1,212	1,110	1,371	2,199
POLLOCK	335	27	43	141	72	36
SALMON	-	-	9	9	34	-
WHITING	-	-	-	-	47	195
UNCLASSIFIED	45	42	116	196	147	245
TOTAL FILLETS AND STEAKS	1,255	2,036	3,184	4,831	5,498	5,753
TOTAL BLOCKS, FILLETS, AND STEAKS	1,256	2,192	3,251	4,934	5,668	5,932
ROUND, DRESSED, ETC.:						
HALIBUT	-	-	-	1,546	5,115	6,124
MACKEREL (EXCEPT SPANISH)	55	83	14	47	24	108
SABLEFISH	1	7	11	27	125	206
SALMON:						
CHINOOK OR KING	-	-	3	45	601	1,668
SILVER OR COHO	-	-	-	-	-	247
CHUM OR KETA	-	-	-	-	-	12
OTHER	-	-	-	-	-	406
TOTAL SALMON	-	-	3	45	601	2,333
SMELT	5	-	-	3	-	15
SWORDFISH	-	-	-	-	7	26
TUNA	-	-	-	1	3	2
WHITING, HEADED AND GUTTED	25	7	18	-	251	4,974
OTHER (EXCEPT BAIT)	1,781	1,294	1,775	2,672	2,166	1,546
TOTAL SALT-WATER FISH	3,123	3,583	5,072	9,275	13,960	21,266
FRESH-WATER:						
FILLETS AND STEAKS	-	-	-	1	-	7
ROUND, DRESSED, ETC.:						
CHUBS	-	-	-	1	12	1
TROUT	38	38	57	54	50	89
WHITEFISH	1	-	1	1	-	34
OTHER (EXCEPT BAIT)	5	10	61	120	39	89
TOTAL FRESH-WATER FISH	44	48	119	177	101	220
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER)	3,065	2,523	1,899	4,119	7,532	7,566
SHELLFISH						
CRABS (INCLUDING CRAB MEAT)	324	417	491	363	169	1,083
SPINY LOBSTER (TAILS)	22	24	17	15	28	14
OYSTER MEATS	215	236	311	569	387	385
SCALLOP MEATS	92	80	96	265	345	333
SHRIMP:						
RAW (HEADLESS, SHELL-ON)	2,415	1,604	1,627	2,532	2,661	2,937
ALL OTHER (INCLUDING BREADED)	5,738	6,126	6,013	5,089	3,988	4,726
TOTAL SHRIMP	8,153	7,730	7,640	7,621	6,649	7,663
SQUID	200	210	71	189	156	85
OTHER	108	78	128	460	279	272
TOTAL SHELLFISH	9,114	8,775	8,754	9,482	8,013	9,835
TOTAL FISH AND SHELLFISH	15,346	14,929	15,844	23,053	29,606	38,887

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF FREEZINGS, BY MONTHS, 1964 - Continued

(THOUSANDS OF POUNDS)

SPECIES	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
SALT-WATER:							
BLOCKS	177	331	210	129	220	220	1,963
FILLETS AND STEAKS:							
COD	216	138	66	161	114	28	1,620
FLOUNDER	330	983	598	982	990	724	7,263
HADDOCK	1,068	915	468	731	278	377	12,795
HALIBUT	479	174	169	-	-	-	1,928
OCEAN PERCH	2,638	2,545	2,103	2,420	1,480	895	19,282
POLLOCK	76	39	38	51	595	153	1,606
SALMON	-	2	2	9	3	-	68
WHITING	461	290	155	158	169	6	1,481
UNCLASSIFIED	256	346	263	361	153	42	2,212
TOTAL FILLETS AND STEAKS	5,524	5,432	3,862	4,873	3,782	2,225	48,255
TOTAL BLOCKS, FILLETS, AND STEAKS	5,701	5,763	4,072	5,002	4,002	2,445	50,218
ROUND, DRESSED, ETC.:							
HALIBUT	5,719	4,206	1,397	655	-	-	24,762
MACKEREL (EXCEPT SPANISH)	245	41	53	231	21	39	961
SABLEFISH	298	513	613	922	191	5	2,919
SALMON:							
CHINOOK OR KING	1,759	1,323	634	130	62	-	6,225
SILVER OR COHO	1,345	2,138	1,713	470	38	-	5,951
CHUM OR KETA	510	519	243	545	624	-	2,453
OTHER	774	750	261	37	28	-	2,256
TOTAL SALMON	4,388	4,730	2,851	1,182	752	-	16,885
SMELT	14	60	36	17	6	8	164
SWORDFISH	71	7	4	20	8	4	147
TUNA	1,309	929	819	628	40	18	3,749
WHITING, HEADED AND GUTTED	13,131	5,206	1,970	1,177	614	23	27,396
OTHER (EXCEPT BAIT)	1,315	2,287	1,305	2,671	2,299	2,772	23,883
TOTAL SALT-WATER FISH	32,191	23,742	13,120	12,505	7,933	5,314	151,084
FRESH-WATER:							
FILLETS AND STEAKS	-	-	5	16	8	-	37
ROUND, DRESSED, ETC.:							
CHUBS	13	12	46	68	53	35	241
TROUT	72	85	94	114	84	69	844
WHITEFISH	46	5	8	-	10	36	142
OTHER (EXCEPT BAIT)	83	39	40	73	17	19	595
TOTAL FRESH-WATER FISH	214	141	193	271	172	159	1,859
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER)	7,401	7,345	5,127	4,640	4,063	1,914	57,194
SHELLFISH							
CRABS (INCLUDING CRAB MEAT)	1,404	804	340	561	322	849	7,127
SPINY LOBSTER (TAILS)	23	57	44	34	20	17	315
OYSTER MEATS	22	1	11	49	56	61	2,303
SCALLOP MEATS	87	194	163	112	120	133	2,020
SHRIMP:							
RAW (HEADLESS, SHELL-ON)	4,300	5,244	5,612	5,801	4,420	3,244	42,397
ALL OTHER (INCLUDING BREADED)	5,076	5,506	5,824	5,788	5,444	5,142	64,460
TOTAL SHRIMP	9,376	10,750	11,436	11,589	9,864	8,386	106,857
SQUID	139	61	12	12	148	218	1,501
OTHER	238	55	87	112	79	128	2,024
TOTAL SHELLFISH	11,289	11,922	12,093	12,469	10,609	9,792	122,147
TOTAL FISH AND SHELLFISH	51,095	43,150	30,533	29,885	22,777	17,179	332,284

NOTE:--PRODUCTION OF FISH FROZEN ON UNITED STATES FISHING OR TRANSPORTING CRAFT IS NOT INCLUDED IN THIS REPORT.

SUMMARY OF FREEZINGS, BY SECTIONS, 1964

(THOUSANDS OF POUNDS)

SPECIES	NEW ENGLAND	MIDDLE ATLANTIC	SOUTH ATLANTIC	NORTH CENTRAL, EAST	NORTH CENTRAL, WEST
FISH	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
SALT-WATER:					
BLOCKS	1,843	-	1	-	-
FILLETS AND STEAKS:					
COD	1,283	8	-	-	-
FLOUNDER	6,703	-	11	-	-
HADDOCK	12,793	2	-	-	-
OCEAN PERCH	18,309	-	-	-	-
POLLOCK	1,599	-	-	-	-
WHITING	1,481	-	-	-	-
UNCLASSIFIED	697	-	106	-	-
TOTAL FILLETS AND STEAKS	42,865	10	117	-	-
TOTAL BLOCKS, FILLETS, AND STEAKS	44,708	10	118	-	-
ROUND, DRESSED, ETC.:					
HALIBUT	25	44	-	-	-
MACKEREL (EXCEPT SPANISH)	557	203	123	-	-
SALMON, OTHER	5	139	-	-	-
SMELT	-	17	-	-	-
SWORDFISH	108	32	-	-	-
TUNA	1,426	15	150	-	-
WHITING, HEADED AND GUTTED	27,042	285	69	-	-
OTHER (EXCEPT BAIT)	13,308	2,695	1,156	2	-
TOTAL SALT-WATER FISH	87,179	3,440	1,616	2	-
FRESH-WATER:					
FILLETS AND STEAKS	-	-	-	25	12
ROUND, DRESSED, ETC.:					
CHUBS	-	89	-	152	-
TROUT	4	-	-	4	-
WHITEFISH	-	138	-	4	-
OTHER (EXCEPT BAIT)	2	186	163	154	46
TOTAL FRESH-WATER FISH	6	413	163	339	58
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER)	35,373	2,299	1,862	141	-
SHELLFISH					
CRABS (INCLUDING CRAB MEAT)	-	-	208	-	-
SPINY LOBSTER (TAILS)	-	-	162	-	-
OYSTER MEATS	-	-	885	-	2
SCALLOP MEATS	1,840	97	83	-	-
SHRIMP:					
RAW (HEADLESS, SHELL-ON)	99	2,417	6,475	-	-
ALL OTHER (INCLUDING BREADED)	-	-	29,795	-	-
TOTAL SHRIMP	99	2,417	36,270	-	-
SQUID	8	400	11	-	-
OTHER	1,297	145	72	-	-
TOTAL SHELLFISH	3,244	3,059	37,691	-	2
TOTAL FISH AND SHELLFISH	125,802	9,211	41,332	482	60

NOTE:--THE SECTIONS INDICATED INCLUDE THE FOLLOWING STATES:
NEW ENGLAND--MAINE, MASSACHUSETTS, RHODE ISLAND, AND CONNECTICUT.
MIDDLE ATLANTIC--NEW YORK, NEW JERSEY, AND PENNSYLVANIA.
SOUTH ATLANTIC--MARYLAND, DISTRICT OF COLUMBIA, VIRGINIA, NORTH CAROLINA, GEORGIA, AND FLORIDA.
NORTH CENTRAL, EAST--OHIO, INDIANA, ILLINOIS, MICHIGAN, AND WISCONSIN.
NORTH CENTRAL, WEST--MINNESOTA, IOWA, MISSOURI, NORTH DAKOTA, NEBRASKA, AND KANSAS.

(CONTINUED ON NEXT PAGE)

SUMMARY OF FREEZINGS, BY SECTIONS, 1964 - Continued

(THOUSANDS OF POUNDS)

SPECIES	SOUTH CENTRAL	PACIFIC	ALASKA	TOTAL
FISH	QUANTITY	QUANTITY	QUANTITY	QUANTITY
SALT-WATER:				
BLOCKS	-	119	-	1,963
FILLETS AND STEAKS:				
COD	-	329	-	1,620
FLOUNDER	58	491	-	7,263
HADDOCK	-	-	-	12,795
HALIBUT	-	576	1,352	1,928
OCEAN PERCH	-	973	-	19,282
POLLOCK	-	7	-	1,606
SALMON	-	7	61	68
WHITING	-	-	-	1,481
UNCLASSIFIED	43	1,363	3	2,212
TOTAL FILLETS AND STEAKS	101	3,746	1,416	48,255
TOTAL BLOCKS, FILLETS, AND STEAKS	101	3,865	1,416	50,218
ROUND, DRESSED, ETC.:				
HALIBUT	-	6,843	17,850	24,762
MACKEREL (EXCEPT SPANISH)	-	78	-	961
SABLEFISH	-	1,942	977	2,919
SALMON:				
CHINOOK OR KING	-	2,213	4,012	6,225
SILVER OR COHO	-	3,295	2,656	5,951
CHUM OR KETA	-	1,560	893	2,453
OTHER	-	396	1,716	2,256
TOTAL SALMON	-	7,464	9,277	16,885
SMELT	-	147	-	164
SWORDFISH	-	7	-	147
TUNA	-	2,158	-	3,749
WHITING, HEADED AND GUTTED	-	-	-	27,396
OTHER (EXCEPT BAIT)	5,361	1,330	31	23,883
TOTAL SALT-WATER FISH	5,462	23,834	29,551	151,084
FRESH-WATER:				
FILLETS AND STEAKS	-	-	-	37
ROUND, DRESSED, ETC.:				
CHUBS	-	-	-	241
TROUT	1	835	-	844
WHITEFISH	-	-	-	142
OTHER (EXCEPT BAIT)	27	17	-	595
TOTAL FRESH-WATER FISH	28	852	-	1,859
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER)	179	12,997	4,343	57,194
SHELLFISH				
CRABS (INCLUDING CRAB MEAT)	426	407	6,086	7,127
SPINY LOBSTER (TAILS)	129	24	-	315
OYSTER MEATS	1,228	188	-	2,303
SCALLOP MEATS	-	-	-	2,020
SHRIMP:				
RAW (HEADLESS, SHELL-ON)	33,032	362	12	42,397
ALL OTHER (INCLUDING BREADED)	34,543	38	84	64,460
TOTAL SHRIMP	67,575	400	96	106,857
SQUID	81	1,001	-	1,501
OTHER	304	197	9	2,024
TOTAL SHELLFISH	69,743	2,217	6,191	122,147
TOTAL FISH AND SHELLFISH	75,412	39,900	40,085	332,284

NOTE:--THE SECTIONS INDICATED INCLUDE THE FOLLOWING STATES:
SOUTH CENTRAL--KENTUCKY, TENNESSEE, ALABAMA, MISSISSIPPI, LOUISIANA, TEXAS, OKLAHOMA, AND ARKANSAS.
PACIFIC--WASHINGTON, OREGON, CALIFORNIA, ARIZONA, COLORADO, UTAH, AND IDAHO.
ALASKA.
PRODUCTION OF FISH FROZEN ON UNITED STATES FISHING OR TRANSPORTING CRAFT IS NOT INCLUDED IN THIS TABLE.

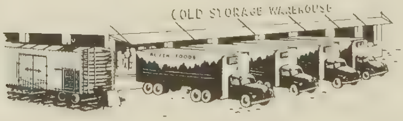
SUMMARY OF FREEZINGS, BY SECTIONS AND MONTHS, 1964

(THOUSANDS OF POUNDS)

MONTH	NEW ENGLAND	MIDDLE ATLANTIC	SOUTH ATLANTIC	NORTH CENTRAL, EAST	NORTH CENTRAL, WEST
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
JANUARY	3,054	535	3,826	12	3
FEBRUARY	3,769	182	3,460	1	-
MARCH	5,249	546	3,660	-	-
APRIL	8,120	1,239	4,849	68	2
MAY	10,080	1,741	3,343	40	4
JUNE	16,813	1,234	3,777	17	25
JULY	25,920	1,236	3,289	5	13
AUGUST	17,516	1,005	2,661	8	-
SEPTEMBER	10,365	545	3,688	43	4
OCTOBER	11,110	302	2,539	144	4
NOVEMBER	8,430	313	3,265	67	-
DECEMBER	5,376	333	2,975	77	5
TOTAL	125,802	9,211	41,332	482	60

MONTH	SOUTH CENTRAL	PACIFIC	ALASKA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY
JANUARY	5,053	1,007	1,856	15,346
FEBRUARY	5,156	1,022	1,339	14,929
MARCH	4,806	1,014	569	15,844
APRIL	4,387	1,985	2,403	23,053
MAY	4,709	5,801	3,888	29,606
JUNE	4,649	4,398	7,974	38,887
JULY	6,489	4,079	10,064	51,095
AUGUST	8,582	6,590	6,788	43,150
SEPTEMBER	8,385	4,454	3,049	30,533
OCTOBER	9,535	5,086	1,165	29,885
NOVEMBER	7,573	2,877	252	22,777
DECEMBER	6,088	1,587	738	17,179
TOTAL	75,412	39,900	40,085	332,284

NOTE:--THE STATES INCLUDED IN THE VARIOUS SECTIONS ARE INDICATED ON PAGES 66 AND 67.



COLD STORAGE HOLDINGS OF FROZEN FISHERY PRODUCTS, 1964

Holdings of frozen fishery products were highest on January 1, when 244.1 million pounds were in storage. The January 31 holdings of 219.9 million pounds were second highest, followed by the September 30 and November 30 holdings of 218.6 and 218.1 million pounds, respectively. The lowest level was on April 30, when stocks totaled only 155.7 million pounds

SUMMARY OF HOLDINGS, BY MONTHS, 1964

(THOUSANDS OF POUNDS)

SPECIES	JANUARY 1	JANUARY 31	FEBRUARY 29	MARCH 31	APRIL 30	MAY 31
FISH	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
SALT-WATER:						
BLOCKS	25,834	24,754	17,178	10,878	9,890	13,118
FILLETS AND STEAKS:						
COD	8,916	7,727	7,018	8,152	7,599	6,733
FLOUNDER	8,021	7,459	5,409	4,374	4,074	4,581
HADDOCK	4,785	3,477	3,265	5,682	7,213	7,782
HALIBUT	3,858	2,539	2,183	1,944	1,722	2,476
OCEAN PERCH	16,339	13,125	9,668	8,790	7,556	7,754
POLLOCK	986	1,006	625	681	705	684
SALMON	741	403	373	204	192	172
WHITING	1,755	1,374	1,012	804	379	307
UNCLASSIFIED	6,497	5,612	4,710	4,807	4,972	5,378
TOTAL FILLETS AND STEAKS	51,898	42,722	34,263	35,438	34,412	35,867
TOTAL BLOCKS, FILLETS, AND STEAKS	77,732	67,476	51,441	46,316	44,302	48,985
FISH STICKS AND PORTIONS (RAW AND COOKED)	13,614	11,330	8,266	8,428	9,290	9,409
ROUND, DRESSED, ETC.:						
HALIBUT	20,027	17,738	13,710	9,855	8,088	11,611
MACKEREL (EXCEPT SPANISH)	871	859	687	559	508	383
SABLEFISH	2,369	2,028	1,781	1,576	1,397	1,248
SALMON:						
CHINOOK OR KING	3,542	3,777	3,038	2,775	2,329	2,536
SILVER OR COHO	3,565	2,850	2,140	1,939	1,447	982
CHUM OR KETA	1,671	1,311	1,034	809	727	792
OTHER	1,350	1,210	867	899	546	655
TOTAL SALMON	10,128	9,148	7,079	6,422	5,049	4,965
SMELT	1,155	985	1,055	1,011	1,109	904
SWORDFISH	2,933	2,581	1,782	1,685	1,595	1,607
TUNA	804	175	179	108	130	240
WHITING, HEADED AND GUTTED	10,687	8,333	5,881	5,312	3,865	1,836
OTHER (EXCEPT BAIT)	11,634	10,490	9,196	7,793	10,553	9,093
TOTAL SALT-WATER FISH	151,954	131,143	101,057	89,065	85,886	90,281
FRESH-WATER:						
FILLETS AND STEAKS	1,459	1,279	985	806	680	757
ROUND, DRESSED, ETC.:						
CHUBS	1,697	1,787	1,462	1,398	1,284	1,384
TROUT	1,323	1,197	1,023	1,044	1,075	1,049
WHITEFISH	1,220	1,466	1,497	1,144	859	609
OTHER (EXCEPT BAIT)	3,009	2,373	2,390	2,257	2,224	2,028
TOTAL FRESH-WATER FISH	8,708	8,102	7,357	6,649	6,122	5,827
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER)	6,486	6,668	7,106	7,835	8,654	13,418
SHELLFISH						
CRABS (INCLUDING CRAB MEAT)	5,037	4,694	5,053	5,596	5,597	5,270
SPINY LOBSTER (TAILS)	5,071	5,301	4,701	4,660	4,143	3,721
OYSTER MEATS	1,426	1,295	1,365	1,785	2,055	1,933
SCALLOP MEATS	3,275	2,736	1,774	1,594	1,730	1,591
SHRIMP:						
RAW (HEADLESS, SHELL-ON)	45,335	43,752	35,303	31,428	28,524	28,082
ALL OTHER (INCLUDING BREADED)	13,781	13,175	11,065	11,264	10,411	9,637
TOTAL SHRIMP	59,116	56,927	46,368	42,692	38,935	37,719
SQUID	968	1,072	1,105	1,074	1,001	1,019
OTHER	2,029	1,981	1,657	1,729	1,570	1,522
TOTAL SHELLFISH	76,922	74,006	62,023	59,130	55,031	52,775
TOTAL FISH AND SHELLFISH	244,070	219,919	177,543	162,679	155,693	162,301
CURED FISH						
HERRING, SALTED	5,601	6,360	6,883	6,295	6,139	6,156
SALMON, MILD-CURED	3,964	3,397	3,346	3,116	2,561	2,669
OTHER SALTED	1,726	1,847	1,853	2,098	2,013	1,977
SMOKED FISH	555	534	467	482	647	751
TOTAL CURED FISH	11,846	12,138	12,549	11,991	11,360	11,553

(CONTINUED ON NEXT PAGE)

SUMMARY OF HOLDINGS, BY MONTHS, 1964 - Continued

(THOUSANDS OF POUNDS)

SPECIES	JUNE 30	JULY 31	AUGUST 31	SEPTEMBER 30	OCTOBER 31	NOVEMBER 30	DECEMBER 31
FISH	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
SALT-WATER:							
BLOCKS	14,035	18,458	23,855	22,699	20,080	18,744	20,010
FILLETS AND STEAKS:							
COD	6,178	6,469	6,878	7,024	6,685	6,381	6,220
FLOUNDER	5,133	4,658	7,132	7,455	8,083	9,060	9,000
HADDOCK	9,128	8,918	9,669	8,808	8,581	7,405	7,448
HALIBUT	3,258	2,413	3,117	3,801	4,056	3,661	2,803
OCEAN PERCH	8,288	9,926	11,657	12,789	14,812	14,999	15,395
POLLOCK	541	680	575	393	354	721	752
SALMON	139	138	136	125	778	247	190
WHITING	572	1,027	1,287	1,465	1,435	1,388	1,376
UNCLASSIFIED	5,292	6,682	6,930	6,154	6,283	6,965	6,789
TOTAL FILLETS AND STEAKS	38,529	40,911	47,381	48,014	51,067	50,827	49,973
TOTAL BLOCKS, FILLETS, AND STEAKS	52,564	59,369	71,236	70,713	71,147	69,571	69,983
FISH STICKS AND PORTIONS (RAW AND COOKED)	9,679	8,508	9,112	9,210	9,201	9,204	8,094
ROUND, DRESSED, ETC.:							
HALIBUT	13,942	19,908	19,641	18,296	15,669	13,330	11,896
MACKEREL (EXCEPT SPANISH)	456	601	527	556	756	1,004	996
SABLEFISH	1,294	1,424	1,811	1,985	2,468	2,531	2,224
SALMON:							
CHINOOK OR KING	4,127	5,197	5,873	6,379	5,440	6,275	5,310
SILVER OR COHO	952	1,730	4,622	6,757	5,418	5,352	4,728
CHUM OR KETA	646	814	1,303	1,778	2,232	2,964	2,692
OTHER	1,118	1,947	2,448	2,427	1,783	1,655	1,363
TOTAL SALMON	6,843	9,688	14,246	17,341	14,873	16,246	14,093
SMELT	771	820	898	1,157	1,436	1,637	856
SWORDFISH	1,294	1,325	1,525	1,587	1,922	2,261	2,450
TUNA	264	877	1,627	6,227	2,505	1,356	829
WHITING, HEADED AND GUTTED	5,292	16,263	17,452	16,572	15,600	15,478	11,354
OTHER (EXCEPT BAIT)	8,555	9,317	9,691	9,517	9,449	10,293	10,065
TOTAL SALT-WATER FISH	100,954	128,100	147,766	153,161	145,026	142,911	132,840
FRESH-WATER:							
FILLETS AND STEAKS	785	900	736	778	1,156	1,123	828
ROUND, DRESSED, ETC.:							
CHUBS	1,414	1,306	1,426	1,493	967	788	1,011
TROUT	1,027	917	933	923	1,223	1,424	1,503
WHITEFISH	804	965	1,326	1,540	1,556	1,330	1,467
OTHER (EXCEPT BAIT)	2,657	2,297	2,313	2,775	2,782	2,818	2,743
TOTAL FRESH-WATER FISH	6,687	6,385	6,734	7,509	7,684	7,483	7,552
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER)	17,296	16,197	14,417	11,285	6,545	6,989	7,060
SHELLFISH							
CRABS (INCLUDING CRAB MEAT)	5,439	4,912	3,823	4,036	6,578	6,678	8,259
SPINY LOBSTER (TAILS)	3,759	3,335	3,106	2,614	2,161	2,784	2,711
OYSTER MEATS	2,216	1,747	1,548	1,270	1,196	1,075	1,051
SCALLOP MEATS	1,981	2,074	2,741	2,476	2,530	2,513	3,078
SHRIMP:							
RAW (HEADLESS, SHELL-ON)	25,546	24,315	21,952	22,909	26,874	33,268	36,641
ALL OTHER (INCLUDING BREADED)	9,972	9,124	10,065	9,562	10,390	10,439	11,875
TOTAL SHRIMP	35,518	33,439	32,017	32,471	37,264	43,707	48,516
SQUID	1,058	1,379	1,569	1,576	1,637	1,853	1,602
OTHER	1,741	1,964	2,003	2,244	2,016	2,114	1,937
TOTAL SHELLFISH	51,712	48,850	46,807	46,687	53,382	60,724	67,154
TOTAL FISH AND SHELLFISH	176,649	199,532	215,724	218,642	212,637	218,107	214,606
CURED FISH							
HERRING, SALTED	5,562	6,188	5,713	4,984	5,230	6,762	6,895
SALMON, MILD-CURED	3,136	4,061	4,946	5,489	5,175	4,689	4,136
OTHER SALTED	2,026	2,027	2,193	2,341	2,096	2,323	2,254
SMOKED FISH	736	682	659	649	539	541	498
TOTAL CURED FISH	11,460	12,958	13,511	13,463	13,040	14,315	13,783

SUMMARY OF HOLDINGS, BY SECTIONS AND MONTHS, 1964

(THOUSANDS OF POUNDS)

DATE	NEW ENGLAND	MIDDLE ATLANTIC	SOUTH ATLANTIC	NORTH CENTRAL EAST	NORTH CENTRAL WEST
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
JANUARY 31	60,617	40,419	15,600	20,880	10,390
FEBRUARY 29.	42,713	36,231	12,713	16,842	9,196
MARCH 31	37,827	35,565	11,381	13,432	8,190
APRIL 30	39,693	34,647	10,594	11,359	8,406
MAY 31	45,372	29,915	9,543	11,060	8,917
JUNE 30.	54,238	27,287	9,422	12,767	10,122
JULY 31.	71,749	28,211	8,044	13,312	9,792
AUGUST 31.	82,745	28,952	8,420	13,267	10,594
SEPTEMBER 30	79,408	30,088	12,285	13,876	11,010
OCTOBER 31	73,804	30,304	9,054	15,241	11,862
NOVEMBER 30.	70,932	33,643	10,982	16,936	14,339
DECEMBER 31.	67,696	33,796	12,639	16,106	14,370

DATE	SOUTH CENTRAL	PACIFIC	ALASKA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY
JANUARY 31	19,754	42,773	9,486	219,919
FEBRUARY 29.	16,388	36,284	7,176	177,543
MARCH 31	16,241	35,015	5,028	162,679
APRIL 30	14,271	32,039	4,684	155,693
MAY 31	14,438	36,548	6,508	162,301
JUNE 30.	13,164	38,393	11,256	176,649
JULY 31.	14,458	39,228	14,738	199,532
AUGUST 31.	16,381	37,852	17,513	215,724
SEPTEMBER 30	15,743	40,631	15,601	218,642
OCTOBER 31	16,429	46,672	9,271	212,637
NOVEMBER 30.	17,161	48,390	5,724	218,107
DECEMBER 31.	17,608	48,019	4,372	214,606

NOTE:--THE STATES INCLUDED IN THE VARIOUS SECTIONS ARE INDICATED ON PAGES 66 AND 67.

COLD STORAGE HOLDINGS OF CURED FISH, 1964

Monthly average holdings of salted and smoked fish were 12.7 million pounds. Cured herring (6.1 million pounds) and mild-cured salmon (3.9 million pounds) accounted for 79 percent of the average cold storage inventories of cured fish.

SUMMARY OF HOLDINGS OF CURED FISH, BY MONTHS, 1964

(THOUSANDS OF POUNDS)

DATE	SALTED			SMOKED	TOTAL
	HERRING, CURED	SALMON, MILD-CURED	OTHER		
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
JANUARY 31	6,360	3,397	1,847	534	12,138
FEBRUARY 29.	6,883	3,346	1,853	467	12,549
MARCH 31	6,295	3,116	2,098	482	11,991
APRIL 30	6,139	2,561	2,013	647	11,360
MAY 31	6,156	2,669	1,977	751	11,553
JUNE 30.	5,562	3,136	2,026	736	11,460
JULY 31.	6,188	4,061	2,027	682	12,958
AUGUST 31.	5,713	4,946	2,193	659	13,511
SEPTEMBER 30	4,984	5,489	2,341	649	13,463
OCTOBER 31	5,230	5,175	2,096	539	13,040
NOVEMBER 30.	6,762	4,689	2,323	541	14,315
DECEMBER 31.	6,895	4,136	2,254	498	13,783

FOREIGN FISHERY TRADE, 1964

U. S. foreign trade in fishery products was valued at a record $628 million--an increase of $71 million compared with 1963. Imports for consumption were valued at $564 million and exports, $64 million. The value of imports was $63.5 million more than in 1963, while exports increased $7.6 million.

Imports of edible fishery products were 1.3 billion pounds valued at $434 million. Compared with 1963, this was an increase of 10 percent in volume and 8 percent in value. The increase was due chiefly to larger receipts of fresh and frozen sea herring, tuna, fillets and steaks, shrimp, and canned sardines. Other important edible items (including groundfish fillets and blocks) received in considerable volume in 1964 were fresh and frozen halibut; lobsters (common and spiny); canned tuna in brine; and pickled or salted cod, haddock, hake, pollock, and cusk.

Shrimp was the major item imported with respect to value. Nearly 154.6 million pounds (including fresh and frozen, canned, and cured) valued at $107 million were received from 57 countries. Shrimp accounted for 25 percent of the value of imported edible items in 1964. Mexico, Panama, and India were among the principal sources. Mexican shrimp accounted for 47 percent of the total imports of shrimp in 1964.

Imports of nonedible fishery products were valued at $131 million in 1964. Important items were fish meal, cultured pearls, and fish and marine animal oils. Fish meal and scrap accounted for 34 percent of the value of imported nonedible fishery products in 1964.

Exports of domestic edible fishery products (94.8 million pounds valued at $42.8 million) increased 46 percent in quantity and 41 percent in value compared with the previous year--principally because of exporting more fresh and frozen salmon to Japan and canned salmon to the United Kingdom. Exports of nonedible domestic fishery products were valued at $21.3 million--19 percent less than in 1963. Exports of foreign produced fishery products were $9.4 million compared with $8.5 million in 1963.

GENERAL REVIEW

Explanation of Changes In Reporting Statistics on U. S. Foreign Trade in Fishery Products

Statistics on foreign fishery trade are obtained from compilations made by the Bureau of the Census, Department of Commerce. Statistics on all known imported or exported fishery products have been assembled and published annually since 1926 in statistical digests published by the Bureau of Commercial Fisheries and its predecessor organizations.

Until September 1963, data were compiled from Bureau of the Census records utilizing "Schedule A. Statistical Classification of Commodities Imported into the United States." However, since August 31, 1963, U.S. importers have been required to report shipments in terms of "Tariff Schedules of the United States Annotated." Commencing with September 1963, "Schedule A. Statistical Classification of Commodities Imported into the United States" were replaced by commodity classifications (for statistical reporting and publication purposes) in the "Tariff Schedules of the United States Annotated" (TSUSA).

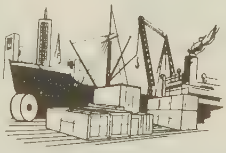
The principal effect of this change in reporting has been an unavoidable break in the historical and current series of statistics on the imports of fishery commodities. In some instances there were direct correlations between the Schedule A commodity numbers and TSUSA item numbers; however, there were no apparent correlations for other commodity numbers. A number of fishery items described in Schedule A. classifications lost their identity when the TSUSA classifications became effective. Other fishery items not listed in Schedule A. classifications are described in the new TSUSA classifications.

This publication has been reorganized in an effort to retain continuity in the Bureau's reporting of historical and current statistics of foreign trade in fishery products.

EXPORTS OF DOMESTIC FISHERY PRODUCTS, 1963-64

ITEM		1963		1964	
EDIBLE FISHERY PRODUCTS	UNIT	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS
FRESH OR FROZEN:					
FISH:					
COD, HADDOCK, HAKE, POLLOCK, AND CUSK. .	1,000 POUNDS	543	113	563	140
SALMON	DO	4,888	2,530	22,560	5,371
OTHER.	DO	13,921	1,858	9,965	1,664
SHELLFISH:					
SHRIMP	DO	8,078	7,748	7,852	7,103
OYSTERS, SHUCKED	DO	251	191	362	301
OTHER (INCLUDING LOBSTERS, SHUCKED CLAMS, AND OYSTERS IN THE SHELL)	DO	2,580	1,196	2,478	1,644
TOTAL FRESH AND FROZEN	DO	30,261	13,636	43,780	16,223
CANNED:					
FISH:					
MACKEREL	DO	4,940	681	8,588	1,140
SALMON	DO	10,228	8,239	20,924	14,852
SARDINES:					
IN OIL	DO	146	50	839	244
NOT IN OIL	DO	3,493	666	2,426	485
TUNA	DO	201	119	416	194
OTHER (INCLUDING HERRING).	DO	723	628	595	596
SHELLFISH:					
SHRIMP	DO	3,199	3,054	3,692	3,664
SQUID.	DO	8,048	742	7,005	662
OTHER (INCLUDING CRABS AND CRAB MEAT). .	DO	1,685	1,263	2,928	2,222
TOTAL CANNED	DO	32,663	15,442	47,413	24,059
CURED, SALTED, PICKLED, OR DRY CURED:					
SALMON	DO	574	509	1,000	743
MISCELLANEOUS FISH	DO	309	121	858	230
SHRIMP	DO	80	81	157	145
TOTAL CURED.	DO	963	711	2,015	1,118
FISH, SHELLFISH, AND OTHER MARINE ANIMAL PRODUCTS (INCLUDING CANNED OR FROZEN SPECIALTIES AND SMOKED FISH AND SHELLFISH).	DO	858	587	1,627	1,478
TOTAL EDIBLE FISHERY PRODUCTS. . . .	DO	64,745	30,376	94,835	42,878
NONEDIBLE FISHERY PRODUCTS					
FISH AND MARINE ANIMAL BODY AND LIVER OIL (EXCEPT MEDICINAL).	DO	262,342	15,636	151,469	13,096
WHALE AND SPERM OIL.	DO	5,591	457	5,565	395
SEAL FURS, DRESSED OR DYED	1,000 PIECES	75	5,877	73	4,706
PEARL ESSENCE.	1,000 POUNDS	17	276	23	322
SHELLS, UNMANUFACTURED	DO	14,988	2,137	16,617	1,606
FISH, SHELLFISH, AND OTHER MARINE ANIMAL PRODUCTS, NONEDIBLE	-	-	1,846	-	1,201
TOTAL NONEDIBLE FISHERY PRODUCTS . .	-	-	26,229	-	21,326
GRAND TOTAL.	-	-	56,605	-	64,204

NOTE:--IN ADDITION TO THE EXPORT FIGURES THAT ARE SHOWN THERE ARE LARGE QUANTITIES OF FISH OILS AND CONCENTRATES THAT ARE EXPORTED FOR MEDICINAL PURPOSES, AND OTHER MISCELLANEOUS FISHERY PRODUCTS THAT CANNOT BE SHOWN BECAUSE THE EXPORT CLASSIFICATION COVERING THESE PRODUCTS INCLUDES OTHER THAN FISHERY PRODUCTS.



EXPORTS OF FOREIGN FISHERY PRODUCTS, 1963-64

ITEM		1963		1964	
EDIBLE FISHERY PRODUCTS	UNIT	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS
FRESH OR FROZEN:					
COD, HADDOCK, HAKE, POLLOCK, AND CUSK. .	1,000 POUNDS	192	50	165	46
SALMON	DO	65	33	116	60
OTHER FISH	DO	1,049	173	2,306	409
SHRIMP	DO	5,733	5,276	7,254	6,013
OTHER SHELLFISH.	DO	278	234	182	138
TOTAL FRESH AND FROZEN	DO	7,317	5,766	10,023	6,666
CANNED:					
MACKEREL	DO	9	1	8	2
SALMON	DO	-	-	12	4
SARDINES:					
IN OIL	DO	34	12	15	6
NOT IN OIL	DO	237	41	3	1
TUNA	DO	58	20	85	46
OTHER FISH	DO	38	57	84	92
SHRIMP	DO	33	42	25	24
SQUID.	DO	9	1	45	4
OTHER SHELLFISH.	DO	3,234	1,788	4,061	2,126
TOTAL CANNED	DO	3,652	1,962	4,338	2,305
CURED, SALTED, PICKLED, OR DRY CURED:					
SALMON	DO	3	1	6	4
MISCELLANEOUS FISH	DO	160	59	261	77
SHRIMP	DO	2	3	6	3
TOTAL CURED.	DO	165	63	273	84
FISH, SHELLFISH, AND OTHER MARINE ANIMAL PRODUCTS (INCLUDING CANNED OR FROZEN SPECIALTIES, AND SMOKED FISH AND SHELLFISH)	DO	82	84	214	124
TOTAL EDIBLE FISHERY PRODUCTS. . .	DO	11,216	7,875	14,848	9,179
NONEDIBLE FISHERY PRODUCTS					
FISH AND MARINE ANIMAL BODY AND LIVER OIL (EXCEPT MEDICINAL).	DO	1,110	90	22	4
WHALE AND SPERM OIL.	DO	4,004	285	-	-
SEAL FURS, DRESSED OR DYED	1,000 PIECES	4	113	1	25
PEARL ESSENCE.	1,000 POUNDS	(1)	4	(1)	3
SHELLS, UNMANUFACTURED	DO	4	1	26	5
FISH, SHELLFISH, AND OTHER MARINE ANIMAL PRODUCTS, NONEDIBLE	-	-	148	-	213
TOTAL NONEDIBLE FISHERY PRODUCTS .	-	-	641	-	250
GRAND TOTAL.	-	-	8,516	-	9,429

1/ LESS THAN 500 POUNDS OR $500.

IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION, 1963-64

ITEM		1963						1964	
		FIRST 8 MONTHS		LAST 4 MONTHS		TOTAL 1/			
EDIBLE FISHERY PRODUCTS	UNIT	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS
FRESH OR FROZEN:									
FISH:									
WHETHER OR NOT WHOLE (EXCEPT FILLETS, STEAKS, ETC.):									
FRESH-WATER:									
LAKE HERRING, CISCO, AND CHUB	1,000 POUNDS	1,158	249	372	90	1,530	339	1,543	378
LAKE TROUT	DO	1,142	431	799	281	1,941	712	1,929	711
PIKE, EXCEPT YELLOW PIKE	DO	(2)	(2)	710	241	(2)	(2)	3,183	868
SAUGER	DO	1,358	511	(3)	(3)	(3)	(3)	(3)	(3)
TROUT (INCLUDING RAINBOW, BROOK, AND BROWN)	DO	2,538	1,201	1,511	703	4,049	1,904	3,912	1,690
WHITEFISH	DO	9,589	3,602	4,396	1,691	13,985	5,293	13,518	5,260
YELLOW PERCH	DO	1,353	157	(3)	(3)	(3)	(3)	(3)	(3)
YELLOW PIKE	DO	4,579	1,908	2,926	1,010	7,505	2,918	6,641	2,583
EELS (FRESH- AND SALT-WATER)	DO	88	34	(3)	(3)	(3)	(3)	(3)	(3)
UNCLASSIFIED	DO	3,444	597	1,366	280	4,810	877	5,449	1,122
TOTAL FRESH-WATER FISH	DO	25,249	8,690	12,080	4,296	37,329	12,986	36,175	12,612
SALT-WATER:									
COD, HADDOCK, HAKE, POLLOCK, AND CUSK (INCLUDES EELS, AND SHAD FOR LAST 4 MONTHS OF 1963 AND CALENDAR YEAR 1964)	DO	1,387	151	788	141	2,175	292	2,278	285
HALIBUT	DO	18,614	5,129	4,108	1,229	22,722	6,358	22,567	6,211
MACKEREL:									
FRESH	DO	739	116	1,237	178	1,976	294	2,288	266
FROZEN	DO	595	74	430	54	1,025	128	1,010	124
SALMON	DO	5,042	3,063	3,856	2,040	8,898	5,103	8,818	5,560
SEA HERRING	DO	22,399	567	23,056	583	45,455	1,150	4/ 97,280	4/ 1,832
SHAD	DO	35	8	(3)	(3)	(3)	(3)	(3)	(3)
SMELT	DO	5,752	772	3,029	394	8,781	1,166	8,637	1,321
STURGEON	DO	773	445	638	251	1,411	696	1,080	579
SWORDFISH:									
FRESH	DO	5,143	1,734	4,634	1,462	9,777	3,196	10,172	4,127
FROZEN	DO	135	33	67	18	202	51	145	46
TUNA (WHOLE AND OTHER THAN WHOLE): 5/									
ALBACORE	DO	65,161	10,219	41,480	6,643	106,641	16,862	149,671	23,905
YELLOWFIN	DO	76,517	10,347	28,924	3,968	105,441	14,315	122,701	17,411
SKIPJACK	DO	26,659	2,502	21,639	1,375	48,298	3,877	35,057	2,652
UNCLASSIFIED	DO	2,158	261	7,418	827	9,576	1,088	13,909	1,571
TOTAL TUNA	DO	170,495	23,329	99,461	12,813	269,956	36,142	321,338	45,539
TUNA LOINS AND DISCS:									
ALBACORE	DO	2,190	867	2,742	1,064	4,932	1,931	7,329	2,753
YELLOWFIN	DO	(2)	(2)	3,221	1,091	(2)	(2)	7,225	2,452
UNCLASSIFIED	DO	3,732	1,298	229	69	3,961	1,367	364	115
TOTAL LOINS AND DISCS	DO	5,922	2,165	6,192	2,224	12,114	4,389	14,918	5,320
UNCLASSIFIED	DO	6,293	1,504	2,542	514	8,835	2,018	8,759	2,666
TOTAL SALT-WATER FISH	DO	243,324	39,090	150,038	21,901	393,362	60,991	499,290	73,876

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION, 1963-64 - Continued

ITEM		1963						1964	
		FIRST 8 MONTHS		LAST 4 MONTHS		TOTAL 1/			
EDIBLE FISHERY PRODUCTS - CONTINUED	UNIT	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS
FRESH OR FROZEN - CONTINUED:									
FISH - CONTINUED:									
FILLETS, STEAKS, ETC.:									
GROUNDFISH AND OCEAN PERCH:									
COD	1,000 POUNDS	22,732	5,371	9,977	2,292	32,709	7,663	33,457	8,048
HADDOCK, HAKE, POLLOCK, AND CUSK	DO	17,395	4,720	6,819	1,848	24,214	6,568	24,013	6,591
OCEAN PERCH	DO	11,918	2,613	9,657	2,097	21,575	4,710	22,933	5,809
BLOCKS OR SLABS	DO	100,936	20,583	52,334	10,804	153,270	31,387	166,166	37,100
TOTAL GROUNDFISH AND OCEAN PERCH	DO	152,981	33,287	78,787	17,041	231,768	50,328	246,569	57,548
OTHER:									
FLOUNDER OR FLATFISH (EXCEPT HALIBUT)	DO	10,640	3,223	5,958	1,747	16,598	4,970	21,574	6,879
HALIBUT AND SALMON	DO	2,909	1,562	1,908	879	4,817	2,441	5,569	2,620
SWORDFISH	DO	12,442	3,979	5,540	1,784	17,982	5,763	17,214	5,312
WOLFFISH (SEA CATFISH)	DO	5,150	1,315	1,580	409	6,730	1,724	8,907	2,297
UNCLASSIFIED SALT-WATER	DO	4,887	1,506	2,737	855	7,624	2,361	8,900	2,748
YELLOW PERCH	DO	5,514	1,742	2,570	880	8,084	2,622	3,664	1,860
YELLOW PIKE	DO	2,286	1,579	2,233	1,420	4,519	2,999	6,616	3,962
UNCLASSIFIED FRESH-WATER	DO	2,080	738	435	154	2,515	892	1,110	448
TOTAL, OTHER THAN GROUNDFISH	DO	45,908	15,644	22,961	8,128	68,869	23,772	73,554	26,126
TOTAL FILLETS, STEAKS, ETC.	DO	198,889	48,931	101,748	25,169	300,637	74,100	320,123	83,674
FISH STICKS AND SIMILAR PRODUCTS	DO	299	83	78	29	377	112	210	82
TOTAL FISH, FRESH AND FROZEN	DO	467,761	96,794	263,944	51,395	731,705	148,189	855,798	170,244
SHELLFISH, ETC.:									
CRABS:									
FRESH OR FROZEN (INCLUDING PREPARED OR PRESERVED, EXCEPT CANNED)	DO	500	213	181	51	681	264	844	317
CRAB MEAT (FRESH COOKED)	DO	210	180	41	44	251	224	107	121
LOBSTERS:									
COMMON (INCLUDES FRESH-COOKED MEAT)	DO	18,653	13,427	3,194	2,832	21,847	16,259	20,386	16,041
SPINY	DO	24,187	27,932	9,861	10,282	34,048	38,214	35,104	43,547
SHRIMP 6/									
HEADLESS	DO	62,703	42,235	(3)	(3)	(3)	(3)	(3)	(3)
BREADED	DO	357	320	127	111	484	431	508	450
PEELED AND DEVEINED	DO	20,281	14,140	(3)	(3)	(3)	(3)	(3)	(3)
SHELL-ON	DO	(2)	(2)	49,014	31,987	(2)	(2)	112,149	75,580
PEELED, RAW	DO	(2)	(2)	9,179	6,722	(2)	(2)	27,385	20,340
PEELED, COOKED, BUT NOT BREADED	DO	(2)	(2)	807	499	(2)	(2)	2,585	1,473
UNCLASSIFIED	DO	6,745	5,274	925	623	7,670	5,897	8,541	6,512
TOTAL SHRIMP	DO	90,086	61,969	60,052	39,942	150,138	101,911	151,168	104,355
CLAMS (IN SHELL OR SHUCKED)	DO	402	87	67	10	469	97	411	80
OYSTERS:									
EXCEPT SEED OYSTERS	DO	805	334	575	271	1,380	605	991	444
UNCLASSIFIED (PRINCIPALLY SEED OYSTERS)	DO	7/ 4,691	7/ 445	7/ 746	7/ 24	7/ 5,437	7/ 469	4,016	497
SCALLOPS	DO	8,968	4,117	4,374	2,189	13,342	6,306	16,108	8,491
FROG LEGS (INCLUDES PREPARED AND PRESERVED)	DO	1,661	1,589	1,274	1,128	2,935	2,717	2,442	1,693
TURTLES (LIVE ONLY)	DO	239	79	250	22	489	101	398	47
TOTAL SHELLFISH, ETC., FRESH AND FROZEN	DO	150,402	110,372	80,615	56,795	231,017	167,167	231,975	175,633
TOTAL FRESH AND FROZEN FISH, SHELLFISH, ETC.	DO	618,163	207,166	344,559	108,190	962,722	315,356	1,087,773	345,877
				7/					

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION, 1963-64 - Continued

ITEM		1963						1964	
		FIRST 8 MONTHS		LAST 4 MONTHS		TOTAL 1/			
EDIBLE FISHERY PRODUCTS - CONTINUED	UNIT	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS
CANNED:									
FISH:									
ANCHOVIES:									
IN OIL	1,000 POUNDS	2,738	1,652	1,162	800	3,900	2,452	4,735	3,917
NOT IN OIL	DO	-	-	271	77	271	77	772	214
SALMON:									
IN OIL	DO	(2)	(2)	1	2	(2)	(2)	15	28
NOT IN OIL	DO	781	383	468	222	1,249	605	221	100
SARDINES:									
IN OIL	DO	13,203	6,344	6,705	3,248	19,908	9,592	20,033	9,578
NOT IN OIL	DO	17,556	2,604	4,084	798	21,640	3,402	24,602	3,863
HERRING:									
IN OIL	DO	(2)	(2)	5	2	(2)	(2)	35	19
NOT IN OIL	DO	5,364	1,758	3,160	1,053	8,524	2,811	8,988	2,980
TUNA:									
IN OIL:									
ALBACORE	DO	150	79	53	29	203	108	201	106
OTHER.	DO	21	10	(3)	(3)	(3)	(3)	(3)	(3)
TOTAL IN OIL	DO	171	89	53	29	224	118	201	106
IN BRINE:									
ALBACORE	DO	17,832	8,543	12,508	5,908	30,340	14,451	33,620	16,048
OTHER.	DO	15,779	5,457	11,151	3,838	26,930	9,295	20,826	7,119
TOTAL IN BRINE	DO	33,611	14,000	23,659	9,746	57,270	23,746	54,446	23,167
BONITO AND YELLOWTAIL:									
IN OIL	DO	3,018	868	462	135	3,480	1,003	3,050	894
IN BRINE	DO	1,166	291	1,219	323	2,385	614	1,940	469
TOTAL BONITO AND YELLOWTAIL.	DO	4,184	1,159	1,681	458	5,865	1,617	4,990	1,363
POLLOCK, SMOKED.	DO	3	2	3	3	6	5	9	7
ANTIPASTO, IN OIL.	DO	129	126	95	85	224	211	248	203
FISH CAKES, BALLS, AND PUDDING	DO	777	193	503	129	1,280	322	1,212	307
CAVIAR AND OTHER FISH ROE (MAY INCLUDE SOME NOT CANNED)	DO	189	537	118	421	307	958	443	1,453
FISH PASTE AND SAUCE	DO	106	56	64	33	170	89	172	96
UNCLASSIFIED FISH:									
IN OIL	DO	469	241	144	83	613	324	390	224
NOT IN OIL	DO	650	245	346	242	996	487	1,482	565
TOTAL CANNED FISH.	DO	79,931	29,389	42,522	17,431	122,453	46,820	122,994	48,190
SHELLFISH, ETC.:									
ABALONE (MAY INCLUDE FRESH OR FRIED, AND CANNED PASTE AND SAUCE)	DO	4,237	2,297	2,641	1,365	6,878	3,662	6,487	3,468
CLAMS:									
RAZOR.	DO	60	34	-	-	60	34	27	15
OTHER.	DO	969	564	478	281	1,447	845	1,403	913
CHOWDER, JUICE, ETC.	DO	-	-	37	24	37	24	3	1
CRAB MEAT (INCLUDES PASTE AND SAUCE)	DO	3,206	3,902	2,090	2,468	5,296	6,370	4,550	5,358
LOBSTER MEAT:									
COMMON	DO	1,877	3,376	485	955	2,362	4,331	2,817	6,631
SPINY.	DO	172	289	109	198	281	487	193	332
SHRIMP	DO	(2)	(2)	1,304	1,180	(2)	(2)	3,004	2,638
OYSTERS AND OYSTER JUICE	DO	4,165	1,638	4,298	1,463	8,463	3,101	7,969	2,876

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION, 1963-64 - Continued

ITEM	UNIT	1963						1964	
		FIRST 8 MONTHS		LAST 4 MONTHS		TOTAL 1/			
EDIBLE FISHERY PRODUCTS - CONTINUED		QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS
CANNED - CONTINUED:									
SHELLFISH, ETC. - CONTINUED:									
SCALLOPS	1,000 POUNDS	(2)	(2)	54	34	(2)	(2)	67	49
SHELLFISH PASTE AND SAUCE	DO	65	37	33	17	98	54	89	47
UNCLASSIFIED	DO	2,759	724	1,014	429	3,773	1,153	4,060	1,459
TOTAL CANNED SHELLFISH	DO	17,510	12,861	12,543	8,414	30,053	21,275	30,669	23,787
TOTAL CANNED FISH, SHELLFISH, ETC.	DO	97,441	42,250	55,065	25,845	152,506	68,095	153,663	71,977
CURED:									
DRIED SHRIMP	DO	(2)	(2)	88	62	(2)	(2)	404	261
DRIED (UNSALTED):									
COD, HADDOCK, HAKE, POLLOCK, AND CUSK	DO	62	33	1,028	534	1,090	567	1,021	558
SHARK FINS	DO	69	62	51	70	120	132	103	107
UNCLASSIFIED	DO	86	78	67	48	153	126	157	139
TOTAL DRIED (UNSALTED)	DO	217	173	1,234	714	1,451	887	1,685	1,065
PICKLED OR SALTED:									
ALEWIVES	DO	1	(8)	-	-	1	(8)	1	(8)
COD, HADDOCK, HAKE, POLLOCK, AND CUSK:									
SKINNED OR BONED	DO	5,069	1,524	4,291	1,372	9,360	2,896	8,889	2,884
OTHER	DO	20,315	3,524	13,155	2,470	33,470	5,994	31,489	5,926
HERRING	DO	14,727	2,050	10,774	1,539	25,501	3,589	27,296	3,880
MACKEREL	DO	832	146	1,257	230	2,089	376	2,157	367
SALMON	DO	51	37	1	1	52	38	3	4
UNCLASSIFIED	DO	252	132	123	56	375	188	257	158
TOTAL PICKLED OR SALTED	DO	41,247	7,413	29,601	5,668	70,848	13,081	70,092	13,219
SMOKED OR KIPPERED:									
COD, HADDOCK, HAKE, POLLOCK, AND CUSK:									
WHOLE, BEHEADED, OR EVISCERATED OR BOTH	DO	110	28	34	10	144	38	100	30
FILLETS, STEAKS, ETC.	DO	880	264	411	117	1,291	381	1,335	381
HERRING:									
WHOLE OR BEHEADED:									
HARD DRY SMOKED	DO	108	12	44	6	152	18	109	13
OTHER	DO	486	70	607	89	1,093	159	712	115
BONED	DO	375	90	667	146	1,330	292	858	170
NOT BONED (EVISCERATED, SPLIT)	DO	288	56						
MACKEREL	DO	(2)	(2)	2	1	(2)	(2)	-	-
SALMON	DO	63	84	20	27	83	111	102	135
UNCLASSIFIED	DO	68	17	9	5	77	22	92	28
TOTAL SMOKED OR KIPPERED	DO	2,378	621	1,794	401	4,172	1,022	3,308	872
TOTAL CURED	DO	43,842	8,207	32,629	6,783	76,471	14,990	75,085	15,156
OTHER FISH AND SHELLFISH, NOT ESPECIALLY PROVIDED FOR	DO	2,425	734	2,853	753	5,278	1,487	1,578	664
TOTAL EDIBLE FISHERY PRODUCTS	DO	7/761,871	7/258,357	7/435,106	7/141,571	7/1,196,977	7/399,928	1,318,099	433,674

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION, 1963-64 - Continued

ITEM		1963						1964	
		FIRST 8 MONTHS		LAST 4 MONTHS		TOTAL 1/			
NONEDIBLE FISHERY PRODUCTS	UNIT	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS
OILS, FISH AND MARINE ANIMAL:									
COD:									
INDUSTRIAL	1,000 GALLONS	594	290	118	53	712	343	960	495
MEDICINAL (LIVER)	DO	671	590	304	280	975	870	929	857
HALIBUT LIVER	DO	2	23	(3)	(3)	(3)	(3)	(3)	(3)
HERRING	DO	285	100	11	8	296	108	504	334
SHARKS, INCLUDING GRAYFISH:									
BODY	DO	1	4	-	-	1	4	-	-
LIVER	DO	-	-	(3)	(3)	(3)	(3)	(3)	(3)
SOD	DO	27	7	11	3	38	10	62	16
WHALE:									
SPERM:									
REFINED	DO	323	313	390	397	713	710	1,567	1,483
CRUDE	DO	5,258	3,589	2,716	2,163	7,974	5,752	6,029	3,792
OTHER	DO	-	-	-	-	-	-	(8)	1
UNCLASSIFIED:									
BODY	DO	58	15	2	2	60	17	-	-
LIVER	DO	11	237	9	86	20	323	19	279
TOTAL FISH AND MARINE ANIMAL OIL	DO	7,230	5,168	3,561	2,992	10,791	8,160	10,070	7,257
MEAL AND SCRAP:									
ANIMAL FEED	1,000 TONS	252	25,255	113	10,559	365	35,814	439	44,154
FERTILIZER	DO	10	1,163	1	62	11	1,225	(8)	27
TOTAL MEAL AND SCRAP	DO	262	26,418	114	10,621	376	37,039	439	44,181
COD LIVER OIL CAKE AND MEAL	1,000 POUNDS	495	39	(3)	(3)	(3)	(3)	(3)	(3)
FISH SOLUBLES	1,000 TONS	3	233	4	261	7	494	5	366
FISH SOUNDS	1,000 POUNDS	17	31	6	20	23	51	22	53
FISH LIVERS FOR DRUGS	DO	-	-	(3)	(3)	(3)	(3)	(3)	(3)
GLUE	DO	616	100	132	25	748	125	719	137
ISINGLASS	DO	14	10	11	8	25	18	28	22
PEARL ESSENCE	DO	20	91	16	62	36	153	40	175
AQUARIUM FISH (INCLUDING GOLDFISH)	-	-	344	-	221	-	565	-	666
FISH (OTHER THAN FOR HUMAN CONSUMPTION)	-	-	7/2,131	-	7/1,131	-	7/3,262	-	5,834
CUTTLEFISH BONE	1,000 POUNDS	188	91	77	33	265	124	179	65
SHELLS AND BUTTONS:									
SHELLS, UNMANUFACTURED:									
MOTHER-OF-PEARL AND TROCUS SHELL	DO	375	167	(3)	(3)	(3)	(3)	(3)	(3)
OTHER	DO	2,018	161	(3)	(3)	(3)	(3)	(3)	(3)
MARINE SHELLS, CRUDE	DO	(2)	(2)	909	141	(2)	(2)	2,691	421
SHELL AND MOTHER-OF-PEARL, ORNAMENTED	-	-	284	-	326	-	610	-	981
OCEAN AND FRESH-WATER PEARL AND SHELL BUTTONS AND BLANKS	-	-	7/428	-	7/383	-	7/811	-	1,117
PEARLS:									
CULTURED	-	-	12,621	-	4,806	-	17,427	-	19,204
NATURAL	-	-	355	-	124	-	479	-	474
TOTAL PEARLS	-	-	12,976	-	4,930	-	17,906	-	19,678
AMBERGRIS	-	-	16	-	5	-	21	-	28

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION, 1963-64 - Continued

ITEM		1963						1964	
		FIRST 8 MONTHS		LAST 4 MONTHS		TOTAL 1/			
NONEDIBLE FISHERY PRODUCTS - CONTINUED	UNIT	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS
SPERMACETI WAX.	1,000 POUNDS	178	38	27	6	205	44	221	45
AQUATIC LEATHERS:									
FISH AND SHARK SKINS, RAW OR SALTED	DO	275	33	(3)	(3)	(3)	(3)	(3)	(3)
OTHER (INCLUDING SEALSKINS, REPTILIAN AND OTHER AQUATIC LEATHER PRODUCTS).	-	-	5,968	-	7/6,011	-	7/11,979	-	22,994
MOSS AND SEAWEEDS	-	-	960	-	7/ 446	-	7/1,406	8,358	1,720
KELP.	1,000 POUNDS	26,915	152	(3)	(3)	(3)	(3)	(3)	(3)
AGAR-AGAR	DO	525	760	166	248	691	1,008	633	993
SODIUM ALGINATE	DO	411	261	167	115	578	376	620	428
SPONGES:									
SHEEPSWOOL.	DO	1	3	1	2	2	5	17	73
YELLOW, GRASS OR VELVET	DO	4	13	2	6	6	19	16	16
HARDHEAD, REEF AND OTHER.	DO	64	634	15	154	79	788	78	810
TOTAL SPONGES	DO	69	650	18	162	87	812	111	899
CORAL, UNCUT, UNMANUFACTURED.	DO	273	21	176	10	449	31	385	29
OTHER FISH, SHELLFISH, AND MARINE ANIMAL PRODUCTS:									
CHEMICALS AND RELATED PRODUCTS.	-	-	5,612	-	7/4,769	-	7/10,381	-	13,731
NONMETALLIC MINERALS AND PRODUCTS	-	-	1,281	-	7/ 541	-	7/1,822	-	2,217
MISCELLANEOUS ITEMS	-	-	641	-	7/2,252	-	7/2,893	-	6,532
TOTAL NONEDIBLE FISHERY PRODUCTS.	-	-	7/65,065	-	7/35,719	-	7/100,784	-	130,569
GRAND TOTAL	-	-	7/323,422	-	7/177,290	-	7/500,712	-	564,243

1/ BECAUSE OF REVISIONS IN COMMODITY DESCRIPTIONS EFFECTIVE SEPTEMBER 1, 1963, THIS COLUMN WILL NOT ADD. HOWEVER, TOTAL FIGURES ARE CORRECT. 2/ BECAUSE OF REVISIONS IN COMMODITY DESCRIPTIONS EFFECTIVE SEPTEMBER 1, 1963, DATA FOR THIS ITEM ARE SHOWN ONLY FOR THE LAST 4 MONTHS OF 1963 AND CALENDAR YEAR 1964. 3/BECAUSE OF REVISIONS IN COMMODITY DESCRIPTIONS EFFECTIVE SEPTEMBER 1, 1963, DATA FOR THIS ITEM ARE SHOWN ONLY FOR THE FIRST 8 MONTHS OF 1963. DATA FOR THE LAST 4 MONTHS OF 1963 AND CALENDAR YEAR 1964 ARE INCLUDED WITH OTHER OR UNCLASSIFIED ITEMS. 4/INCLUDES BUREAU OF CUSTOMS DATA ON IMPORTS OF FRESH SEA HERRING INTO MAINE THAT AMOUNTED TO 97.3 MILLION POUNDS. BUREAU OF CENSUS DATA, WHICH DID NOT INCLUDE MOST ENTRIES VALUED AT LESS THAN $250, AMOUNTED TO 16,137,990 POUNDS VALUED AT $303,803. 5/INCLUDES LANDINGS OF FOREIGN-CAUGHT TUNA IN AMERICAN SAMOA. SUCH LANDINGS ARE NOT INCLUDED IN THE BUREAU OF CENSUS DATA BECAUSE OF THE TERRITORIAL SITUATION OF THE POSSESSION. 6/DURING 1963, CHANGES WERE MADE IN THE COMMODITY CLASSIFICATION OF SHRIMP. SHRIMP DATA IN THIS REPORT COVER THE PERIOD FOR WHICH THE CLASSIFICATIONS WERE IN EXISTENCE AND, THEREFORE, DO NOT REPRESENT CALENDAR YEAR TOTALS FOR THE VARIOUS DESCRIPTIONS LISTED. 7/REVISED. 8/LESS THAN 1,000 UNITS OR $1,000.

NOTE:--COMMENCING WITH SEPTEMBER 1963, "SCHEDULE A. STATISTICAL CLASSIFICATION OF COMMODITIES IMPORTED INTO THE UNITED STATES" WAS REPLACED BY COMMODITY CLASSIFICATIONS IN THE "TARIFF SCHEDULES OF THE UNITED STATES ANNOTATED". IN SOME INSTANCES THERE WERE DIRECT CORRELATIONS BETWEEN THE 1961 SCHEDULE A. COMMODITY NUMBERS AND TSUSA ITEM NUMBERS. HOWEVER, THERE WERE NO APPARENT CORRELATIONS FOR OTHER COMMODITY NUMBERS. A NUMBER OF FISHERY ITEMS DESCRIBED IN SCHEDULE A. CLASSIFICATIONS LOST THEIR IDENTITY WHEN THE TSUSA CLASSIFICATIONS BECAME EFFECTIVE. OTHER FISHERY ITEMS NOT LISTED IN SCHEDULE A. CLASSIFICATIONS ARE DESCRIBED IN THE NEW TSUSA CLASSIFICATIONS.-COMPILED IN THE BRANCH OF FISHERY STATISTICS, DIVISION OF ECONOMICS, FROM RECORDS OF THE U.S. DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS.

U. S. IMPORTS OF EDIBLE FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF ORIGIN, 1964

CONTINENT AND COUNTRY OF ORIGIN	THOUSAND POUNDS	PERCENT
NORTH AMERICA:		
CANADA.	459,269	34.84
MEXICO.	93,207	7.07
TRINIDAD.	19,015	1.44
PANAMA.	12,459	.95
GREENLAND	7,327	.55
EL SALVADOR	6,298	.48
COSTA RICA.	3,158	.24
OTHER	13,518	1.03
TOTAL.	614,251	46.60
SOUTH AMERICA:		
PERU.	31,428	2.39
ECUADOR	18,165	1.38
VENEZUELA	8,086	.62
BRITISH GUIANA.	5,513	.42
OTHER	11,255	.86
TOTAL.	74,447	5.67
EUROPE:		
ICELAND	66,875	5.07
NORWAY.	44,119	3.35
SPAIN	19,918	1.51
PORTUGAL.	11,046	.84
DENMARK	10,508	.80
WEST GERMANY.	7,959	.60
UNITED KINGDOM.	5,776	.44
FRANCE.	4,804	.36
OTHER	6,235	.47
TOTAL.	177,240	13.44
ASIA:		
JAPAN.	307,939	23.36
INDIA.	10,948	.83
MALAYSIA	8,680	.66
TAIWAN	5,925	.45
KUWAIT	5,358	.40
PAKISTAN	4,924	.37
OTHER.	8,012	.61
TOTAL	351,786	26.68
AUSTRALIA AND OCEANIA:		
AUSTRALIA.	12,171	.92
BRITISH WESTERN PACIFIC ISLANDS	4,556	.35
OTHER.	6,362	.48
TOTAL	23,089	1.75
AFRICA:		
REPUBLIC OF SOUTH AFRICA.	37,770	2.86
SIERRA LEONE	11,638	.88
IVORY COAST.	11,337	.86
CANARY ISLANDS	9,965	.76
OTHER.	6,576	.50
TOTAL	77,286	5.86
GRAND TOTAL	1,318,099	100.00

SOURCE:--DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS.

VALUE OF U. S. IMPORTS OF EDIBLE FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF ORIGIN, 1964

CONTINENT AND COUNTRY OF ORIGIN	THOUSAND DOLLARS	PERCENT
NORTH AMERICA:		
CANADA.	123,504	28.48
MEXICO.	60,691	13.99
PANAMA.	8,586	1.98
EL SALVADOR	3,920	.90
OTHER	13,514	3.12
TOTAL.	210,215	48.47
SOUTH AMERICA:		
ECUADOR	6,336	1.46
VENEZUELA	4,516	1.04
BRITISH GUIANA.	4,023	.93
PERU.	3,980	.92
OTHER	9,108	2.10
TOTAL.	27,963	6.45
EUROPE:		
ICELAND	16,407	3.78
NORWAY.	13,741	3.17
PORTUGAL.	5,847	1.35
SPAIN	5,497	1.27
DENMARK	3,777	.87
OTHER	6,584	1.52
TOTAL.	51,853	11.96
ASIA:		
JAPAN.	78,667	18.14
INDIA.	6,208	1.43
KUWAIT	3,539	.81
OTHER.	10,526	2.43
TOTAL	98,940	22.81
AUSTRALIA AND OCEANIA:		
AUSTRALIA.	12,268	2.83
NEW ZEALAND.	4,088	.94
OTHER.	1,289	.30
TOTAL	17,645	4.07
AFRICA:		
REPUBLIC OF SOUTH AFRICA.	20,847	4.81
OTHER.	6,211	1.43
TOTAL	27,058	6.24
GRAND TOTAL	433,674	100.00

SOURCE:--DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS.

U. S. EXPORTS OF EDIBLE FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1964

CONTINENT AND COUNTRY OF DESTINATION	THOUSAND POUNDS	PERCENT
NORTH AMERICA:		
CANADA	16,545	17.44
EL SALVADOR	1,677	1.77
DOMINICAN REPUBLIC	947	1.00
JAMAICA	870	.92
NICARAGUA	589	.62
NETHERLAND ANTILLES	464	.49
OTHER	2,099	2.21
TOTAL	23,191	24.45
SOUTH AMERICA:		
VENEZUELA	303	.32
ECUADOR	214	.23
OTHER	266	.28
TOTAL	783	.83
EUROPE:		
UNITED KINGDOM	19,235	20.28
GREECE	4,666	4.92
FRANCE	3,464	3.65
NETHERLANDS	3,191	3.37
BELGIUM	2,091	2.21
DENMARK	665	.70
SWEDEN	543	.57
WEST GERMANY	538	.57
OTHER	1,113	1.17
TOTAL	35,506	37.44
ASIA:		
JAPAN	22,347	23.57
PHILIPPINES	7,485	7.89
HONG KONG	1,102	1.16
OTHER	1,092	1.15
TOTAL	32,026	33.77
AUSTRALIA AND OCEANIA:		
NEW ZEALAND	1,050	1.11
AUSTRALIA	982	1.03
OTHER	739	.78
TOTAL	2,771	2.92
AFRICA:		
LIBERIA	125	.13
REPUBLIC OF SOUTH AFRICA	118	.13
OTHER	315	.33
TOTAL	558	.59
GRAND TOTAL	94,835	100.00

SOURCE:--DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS.

VALUE OF U. S. EXPORTS OF FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1964

CONTINENT AND COUNTRY OF DESTINATION	THOUSAND DOLLARS	PERCENT
NORTH AMERICA:		
CANADA	10,433	16.25
MEXICO	417	.65
EL SALVADOR	357	.56
OTHER	1,801	2.80
TOTAL	13,008	20.26
SOUTH AMERICA:		
VENEZUELA	239	.37
OTHER	216	.34
TOTAL	455	.71
EUROPE:		
UNITED KINGDOM	15,102	23.52
SWEDEN	6,425	10.01
NETHERLANDS	4,879	7.60
WEST GERMANY	3,146	4.90
FRANCE	2,325	3.62
SWITZERLAND	1,283	2.00
BELGIUM	1,116	1.74
NORWAY	1,064	1.66
DENMARK	1,052	1.64
OTHER	1,660	2.58
TOTAL	38,052	59.27
ASIA:		
JAPAN	9,200	14.33
PHILIPPINES	1,043	1.62
HONG KONG	603	.94
OTHER	748	1.17
TOTAL	11,594	18.06
AUSTRALIA AND OCEANIA:		
AUSTRALIA	427	.67
NEW ZEALAND	150	.23
OTHER	168	.26
TOTAL	745	1.16
AFRICA:		
REPUBLIC OF SOUTH AFRICA	117	.18
ZAMBIA	70	.11
OTHER	163	.25
TOTAL	350	.54
GRAND TOTAL	64,204	100.00

SOURCE:--DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS.

SECTION 2 - NEW ENGLAND FISHERIES

The commercial fisheries of the New England States, (Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut) in 1964 yielded 681.9 million pounds of fish and shellfish worth $67.6 million to the fishermen. This was a decline from 1963 of 147.0 million pounds (18 percent) and $693,000 (1 percent). The principal species contributing to the lower volume were sea herring, unclassified species for industrial purposes, ocean perch, tuna, and sea scallops. There was a large increase in the catch of haddock, with minor increases in whiting, yellowtail flounder, lobsters, and shrimp. The average price of fish increased 13.7 percent, while shellfish average prices jumped 21.0 percent, offsetting, to a considerable extent, the effect of decreased production.

Landings in the New England States, except New Hampshire, were down from 1963. Massachusetts led with 66 percent, followed by Maine, 28 percent; and Rhode Island, 5 percent. Connecticut and New Hampshire made up the remaining 1 percent. The percentage breakdown by value was Massachusetts, 59; Maine, 32; Rhode Island, 6; Connecticut, 2; and New Hampshire, 1 percent.

Fishermen and vessels. In 1964, New England had 20,194 fishermen using 721 vessels of 5 net tons or greater and 10,593 other craft. This was a decline of 1,234 fishermen, 12 vessels, and 153 other craft compared with 1963.

Vessel construction. Among the new vessels added to the New England fleet in 1964 was another stern trawler, the 64-foot-long Canyon Prince, built at the same yard that constructed the highly successful Narragansett. Two other vessels, the Chilmark Sword and the Chilmark Voyager joined the fleet as longliners but can be converted to stern trawling when required. A total of eight new vessels entered the fishery in 1964, all with New Bedford as home port.

In August, Congress passed Public Law 88-498, a fishing vessel construction subsidy law to replace the earlier and more restrictive Public Law 86-516 which expired in June 1963. The new law, The U. S. Fishing Fleet Improvement Act, authorizes an annual sum of $10 million for a period of 5 years to be made available for the construction of vessels of advanced design, capable of fishing in expanded areas, equipped with newly developed gear and scheduled for operation where such use will not cause economic hardship to other fishermen operating in that particular fishery. Up to 50 percent of the cost of the new vessel may be subsidized under the law. The earlier subsidy act limited assistance to a maximum of 33-1/3 percent and under the restrictions imposed by the act, the only fishery qualified for assistance was the New England groundfish industry. Regulations covering the new act were issued in the closing days of 1964, so no New England vessels were constructed under this program during the year.

Losses to the fleet were heavy in 1964 and included seven vessels from New Bedford, eight from Gloucester, two from Portland, one from Boston, and one from Point Judith. Six men lost their lives as a result of two sinkings.

Weather. The 1964 weather pattern could best be described as near normal although January and February were severe, and the loss of fishing time during these months was greater than usual because of gale-force winds. Especially affected were vessels of the New Bedford scallop and yellowtail fleets. A warning of a hurricane, which failed to materialize, also interrupted fishing temporarily. Losses of lobster pots and other inshore fishing gear were nominal.

Labor. No serious labor-management disagreements troubled shore installations of the New England fishing industry in 1964. Fishing was interrupted, however, by minor localized disputes and by contract negotiations at some of the ports, the most prolonged of which was at Rockland. The trend toward longer term contracts continued in 1964. Three-year agreements were reached in Gloucester between two major fish processors and the shoreworkers' union, and also between management and the stevedores. The new contracts were generally more rewarding than usual to employees and reflected the relative prosperity of this branch of the fishing industry. In New Bedford, Boston, and Rockland, fishermen and vessel owners reached new agreements. In all instances the principal gain was in fringe benefits.

Legislation. In June, the Governor of Massachusetts signed a bill transferring responsibility for the inspection of landings of commercial fish from the Department of Natural Resources to the State Department of Public Health.

Groundfish. Landings of the six groundfish species--cod, cusk, haddock, white hake, pollock, and ocean perch--were 283.0 million pounds in 1964 valued at $19.2 million. The catches of cusk, haddock, and white hake improved over the previous year, whereas the other species declined. An 8-percent increase in haddock landings to 133.5 million pounds was more than offset by the 18-percent drop in the ocean perch catch to 89.3 million.

Imports of groundfish fillets, including blocks and slabs, were 246.6 million pounds in 1964--a new record and 6 percent above the 1963 imports. The available supply of groundfish fillets and blocks in the United States was 321.7 million pounds in 1964, only 23 percent of which was domestically produced.

Haddock. Haddock led in both volume and value among the fishes landed at New England ports in 1964. Landings increased 8 percent to 133.4 million pounds; the value of the catch, $11.8 million, was 1 percent above that of 1963. Boston continued to be the dominant haddock port with 65 percent of the catch. Gloucester ranked second with 20 percent, up from 16 percent in 1963; followed by New Bedford, with 10 percent. Gloucester vessels, many of which formerly fished ocean perch, continue to contribute heavily to the supply of groundfish, principally haddock landed at the port of Boston. Gloucester received a larger share than usual of the haddock and mixed groundfish (other than ocean perch) landings, which enter both the fresh and frozen fish market.

Ocean perch. The New England ocean perch fishery continued to decline. The landings of only 89.3 million pounds were down 18 percent from the 108.3 million pounds taken in 1963 and were the lowest since 1940. Contrary to expectations, the average price per pound also declined--4.23 cents compared with 4.75 cents in 1963. The dimension of the ocean perch catch decline in recent years can best be pointed out by noting that the total New England landings for 1964 were almost exactly half the record 1951 Gloucester landings of 177.7 million pounds. Sixty-six percent of the 1964 production was landed at Maine ports compared with 59 percent in 1963.

Lower average prices and the failure of imports to compensate for the decline in domestic production (imports were up 6 percent to 22.9 million pounds) appear to indicate that the consumer market for ocean perch fillets in the raw state is declining. Some domestic perch have been made into blocks or slabs for the stick and portion industry, but cod and haddock continue to be preferred.

Whiting. Landings of whiting in 1964 were 87.7 million pounds--1 percent above the 1963 landings, but nevertheless a great disappointment to a large segment of the industry. The 25.3 million pounds landed at Maine ports were 59 percent above 1963 and established a new record for that State. In Massachusetts, however, landings declined 13 percent from 1963 to 58.1 million pounds and were the lowest since 1950. Fishermen and processors generally felt that the continued large-scale whiting fishery of the Russian fleet on the offshore banks has affected the productivity of some of the whiting grounds. Little or no change occurred in the methods of catching, handling, or processing whiting in 1964. No further attempts were made to form cooperative organizations for the marketing or processing of these fish.

Herring. Landings of sea herring in Maine during 1964 declined severely to 60.9 million pounds. This is 60 percent below the 152.3 million landed in 1963 and continues the pattern of wide fluctuations in supply that has plagued this industry. Imports of sea herring from Canada increased to 97.3 million pounds from 45.5 million in 1963. Twenty-three canneries processed 866,000 standard cases of Maine sardines compared with 27 packers and a production of 1.6 million cases in 1963. In 1964, imports of canned sardines, including sea herring, increased 7 percent to 53.7 million pounds.

As a result of a court ruling, Maine sardine packers may now extend their season. A court decision found that the existing law making it illegal to pack sardines except during the period from April 15 to December 1, carried no specific prohibition against packing imported sea herring during the closed season.

Tuna. Landings of tuna, both bluefin and skipjack, were only 3.3 million pounds in 1964, most of which came into New Bedford. The catch in 1963 was 8.8 million pounds. Large tuna seiners were deterred from landing at New England ports by the additional costs of handling, storage, and transportation required before the tuna could reach canneries, which are generally located outside New England. One tuna seiner landed more than 200,000 pounds of mackerel, which is believed to have been the largest trip of fresh mackerel ever landed on the Atlantic coast. Most of the record catch was sold for fish meal and oil because the foodfish market was unable to absorb such a large quantity.

Swordfish. The relatively new swordfish longline fishery proved a disappointment in 1964, failing to live up to the promise indicated in 1963. New England landings by longliners were only 1.2 million pounds, which was 64 percent of the 1963 catch. Incidental catches of tunas and sharks were also less. Several vessels, principally out of New Bedford, made short-lived attempts at the fishery, with discouraging results. The active vessels in the fleet landed much of their catches at ports in the Middle Atlantic States, which were closer to the more productive fishing grounds. The longline fishery takes all sizes of swordfish, which average considerably less than those taken in the harpoon fishery. Swordfish under 100 pounds are known as pups and bring a much lower price. While no data are available on the population structure of the swordfish catch, landings record show that an increasing percentage consists of small fish.

Industrial fish. The production of fish for manufacture into meal and oil was far less than in 1963. Landings of unclassified species of industrial fish were 27.9 million pounds in 1964 compared with 58.2 million in 1963. This 52-percent drop was almost entirely due to closing of the industrial plant at Point Judith, R. I. Although the fleet continued to fish out of that port, its catches were placed aboard carrier vessels and transported to ports outside New England. In addition to the unclassified species, 4.0 million pounds of alewives were caught by purse seiners for industrial use and landed at Gloucester. This was a 63-percent drop from the 10.9 million pounds landed in 1963. For the second year, no menhaden were taken by purse seiners north of Cape Cod.

Yellowtail flounder. Landings of yellowtail flounders increased once again in 1964 to establish a record for the fourth consecutive year. The catch of 79.3 million pounds valued at $5.4 million was up 2 percent in volume and 6 percent in value from 1963. The 65.8 million pounds of yellowtails landed at New Bedford represented 48 percent of that port's total landings of fish and shellfish. Improved and enlarged fillet processing facilities at New Bedford have eliminated the gluts of raw fish, which had occurred in previous years.

Lobsters. The lobster supply continues to fall behind the demand, which is spreading to overseas markets. The 1964 landings of 29.3 million pounds were less than 1 percent above the 1963 total, but the value climbed to a record $19.0 million or 17 percent above the $16.2 million received the previous year. Maine landings were 21.4 million pounds, followed by

Massachusetts, 5.5 million; and Rhode Island, New Hampshire, and Connecticut, with less than 1 million pounds each.

Otter trawling for lobsters continued to grow in importance. Several large trawlers, some formerly in the ocean perch fleet, joined the lobster dragging fleet late in 1964 and were generally successful. Landings of lobsters by otter trawlers in New England in 1964 were 9 percent of the total compared with 7 percent in 1963. The feeling that there was need for research on the offshore lobster fishery has prompted several groups to urge that a program of study be undertaken.

Sea scallops. Landings of sea scallop meats declined 18 percent to 14.5 million pounds compared with 17.8 million pounds in 1963. The total value of $8.0 million, however, was only 4 percent under that of the previous year. In December, one trip of sea scallop meats landed at New Bedford sold for 80 cents a pound--an alltime record price. New Bedford remained the center of the domestic sea scallop industry and had landings of 12.9 million pounds. In spite of the increasing value of sea scallop meats, the New Bedford scallop fleet had only 35 vessels at the close of the year. The scarcity of scallops on Georges Bank and the profit in fishing for yellowtail flounders and groundfish contributed to the decrease in scallopers. Imports of sea scallops in 1964 increased for the ninth straight year and were 16.2 million pounds, 21 percent above 1963.

Shrimp. Nearly 1 million pounds of northern shrimp valued at 12 cents a pound were landed in Maine--an increase of 72 percent in volume over the previous year and a record. This fishery provides a welcome financial lift to Maine fishermen during January, February, and March, the time of year when additional income is most needed. A shrimp peeling machine was in operation in Maine for the first time in 1964.

Processed fishery products. The total value of fishery products manufactured in the New England States in 1964 was $118.1 million--down $3.7 million from 1963. The decline resulted from reduced production of ocean perch fillets and canned sardines.

New Bureau facilities. The Marine Products Development Irradiator located in Gloucester, Mass., was formally dedicated by the Bureau in September. A facility in the Atomic Energy Commission's long-range program of using isotopes for food preservation, the plant is adjacent to the Bureau's Technological Laboratory. Programs to determine the feasibility of irradiation for preserving seafoods were started during the year.

In December, ground was broken for a new shellfisheries center at Milford, Conn. The present laboratory at Milford is housed in one of the older facilities of the Bureau and has long been inadequate for the growing program in basic research on the ecology and physiology of marine invertebrates at that station. Completion of the new laboratory will be in 1966.

Harbor and plant development. A $1.2-million dredging project was started in Gloucester Harbor in 1964. The long-awaited project will deepen the inner harbor to a mean low-water depth of 20 feet, thus allowing larger ocean-going cargo vessels to use the port's docking facilities. It will also remove several ledges that have been a navigational hazard.

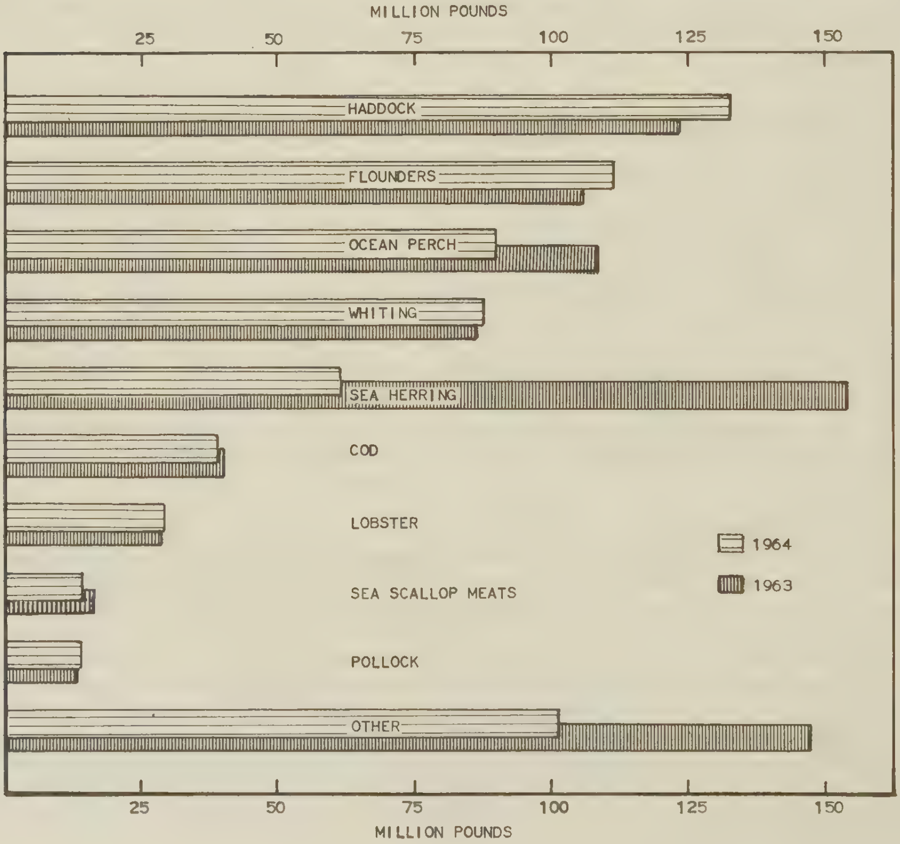
Facilities for handling fish and shellfish at New Bedford were improved during the year. Work continued on thec city's hurricane protection dike, which is expected to cost over $16 million when it is completed in 1965. The New Bedford Maritime Terminal continued to grow. The terminal initially covered 19 acres and featured a 1,500-foot-long bulkhead for mooring vessels. More area was acquired in 1964, and a 20-million-pound cold storage plant was built on the site. The terminal already houses a pet food manufacturing plant and a fish stick-portion processor. Additional processors and fish handlers are expected to locate in the area.

Urban Renewal programs along both the Gloucester and Boston water-fronts began in 1964, but there was no major dislocation of fish processing plants. These programs may bring several changes in the next 2 or 3 years, however, along Boston's Atlantic Avenue section where many fish processing plants are located and also on the Gloucester waterfront.

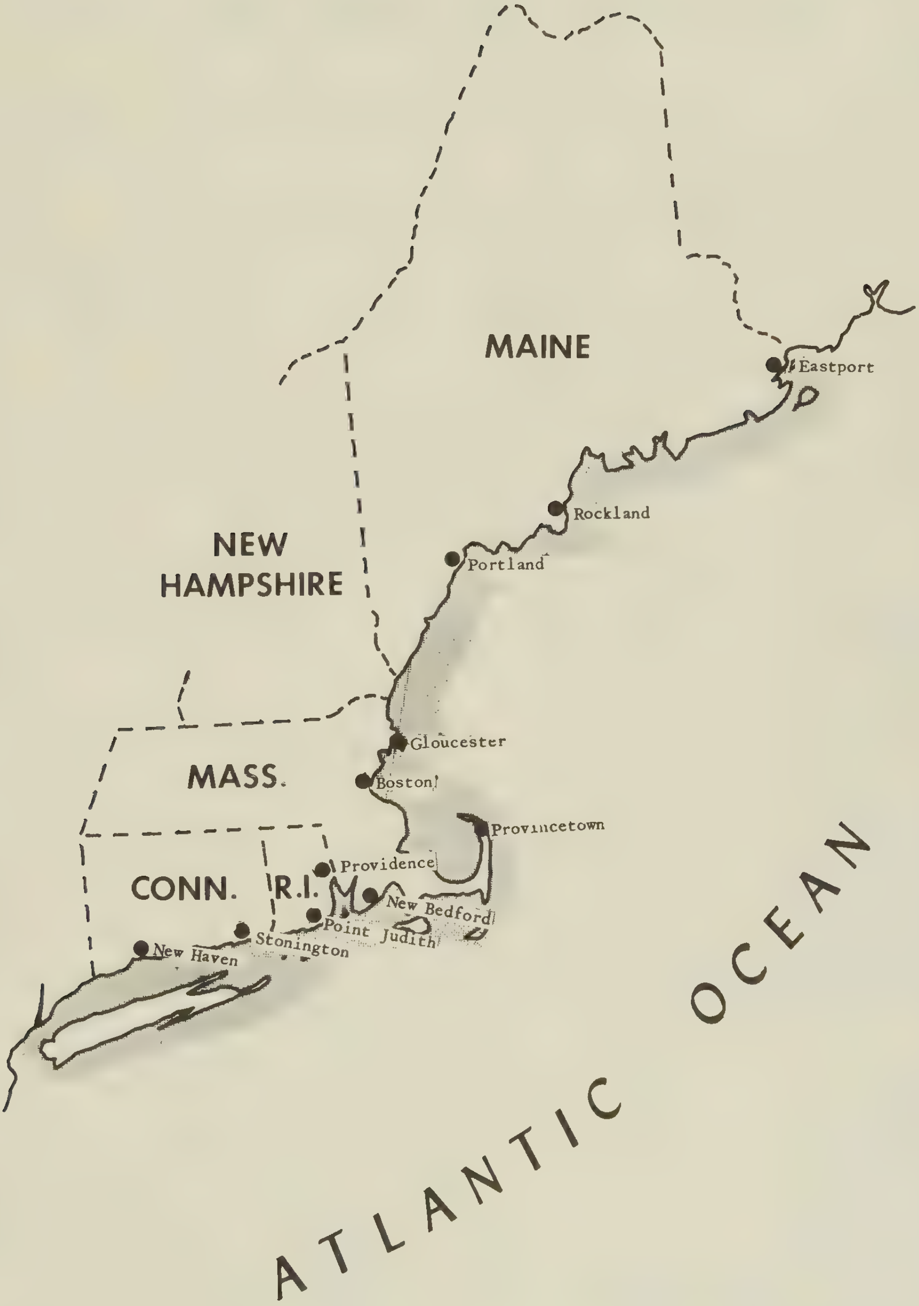
Other information. The following tables contain summarized and detailed information on the 1964 operating units and landings of fish and shellfish in the New England States. Condensed summary data on the operating units and landings by States of the New England area, appearing on the following pages, have been previously published in Current Fishery Statistics No. 3919. Additional data on many aspects of the New England fisheries may be found in Maine, Massachusetts, and Rhode Island monthly and annual landing bulletins released by the Branch of Fishery Statistics and in daily, monthly, and annual reports published by the Bureau's Fishery Market News Office, Commonwealth Pier, Boston, Mass.

Acknowledgments. The following organizations assisted in collecting the data appearing in this section: Maine Department of Sea and Shore Fisheries; New Hampshire Fish and Game Department; Massachusetts Department of Natural Resources, Division of Marine Fisheries; Rhode Island Department of Agriculture and Conservation, Division of Fish and Game; Connecticut State Board of Fisheries and Game; and Connecticut State Shell Fish Commission.

NEW ENGLAND CATCH OF CERTAIN SPECIES, 1964 AND 1963



NEW ENGLAND FISHERIES


MAINE
Eastport
Rockland
Portland
NEW HAMPSHIRE
Gloucester
MASS.
Boston
Provincetown
Providence
CONN.
R.I.
New Bedford
Point Judith
Stonington
New Haven
ATLANTIC OCEAN

NEW ENGLAND STATES

NEW ENGLAND FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF CATCH, 1964

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

STATE	FISH		SHELLFISH, ETC.		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
MAINE	162	5	31	17	193	22
NEW HAMPSHIRE	(1)	(1)	1	1	1	1
MASSACHUSETTS	422	27	24	13	446	40
RHODE ISLAND	33	2	4	2	37	4
CONNECTICUT	4	(1)	1	1	5	1
TOTAL	621	34	61	34	682	68

1/ LESS THAN 500,000 POUNDS OR $500,000.

SUMMARY OF OPERATING UNITS, 1964

ITEM	MAINE	NEW HAMPSHIRE	MASSA-CHUSETTS	RHODE ISLAND	CONNECTI-CUT	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	535	-	3,296	390	142	4,358
ON BOATS AND SHORE:						
REGULAR	4,104	100	883	465	47	5,599
CASUAL	3,928	302	5,166	815	326	10,237
TOTAL	8,567	402	9,347	1,670	515	20,194
VESSELS, MOTOR	140	-	489	102	51	721
GROSS TONNAGE	8,496	-	38,066	3,274	1,511	47,064
BOATS:						
MOTOR	5,445	179	3,171	1,091	242	10,128
OTHER	266	5	133	38	23	465
GEAR:						
HAUL SEINES, COMMON	-	-	7	4	9	20
LENGTH, YARDS	-	-	420	500	471	1,391
STOP SEINES	123	-	-	-	-	123
LENGTH, YARDS	55,050	-	-	-	-	55,050
PURSE SEINES:						
HERRING	6	-	-	-	-	6
LENGTH, YARDS	2,200	-	-	-	-	2,200
MACKEREL	8	-	-	3	-	11
LENGTH, YARDS	3,300	-	-	500	-	3,800
TUNA	-	-	8	-	-	8
LENGTH, YARDS	-	-	5,800	-	-	5,800
OTHER	-	-	3	-	-	3
LENGTH, YARDS	-	-	1,825	-	-	1,825
BAG NETS	10	5	-	-	-	15
OTTER TRAWLS:						
FISH	113	-	405	70	54	593
YARDS AT MOUTH	2,467	-	10,875	1,744	937	14,774
LOBSTER	-	-	24	9	5	36
YARDS AT MOUTH	-	-	680	246	159	1,034
SHRIMP	28	-	-	-	-	28
YARDS AT MOUTH	560	-	-	-	-	560
WEIRS	68	7	-	-	-	75
POUND NETS, FISH	-	-	49	1	-	50
FLOATING TRAPS	12	-	13	19	-	44
FYKE AND HOOP NETS, FISH	-	-	-	-	5	5
POTS AND TRAPS:						
CONCH	-	-	135	375	429	939
CRAB	835	150	40	877	-	1,902
EEL	-	-	175	390	445	1,010
LOBSTER	754,190	17,000	106,624	7,008	9,831	894,653
BOX TRAPS	5	-	-	-	-	5
GILL NETS:						
ANCHOR, SET OR STAKE	8	-	14	1	7	30
SQUARE YARDS	40,920	-	79,000	100	1,467	121,487
DRIFT:						
SHAD	-	-	-	-	40	40
SQUARE YARDS	-	-	-	-	100,954	100,954
OTHER	-	-	25	-	12	37
SQUARE YARDS	-	3,000	250,820	-	2,953	256,773
LINES:						
HAND	326	340	1,882	134	[illegible]	[illegible]
HOOKS	331	740	2,255	361	[illegible]	[illegible]
TROLL	-	-	15	27	-	42
HOOKS	-	-	15	27	-	42
LONG OR SET WITH HOOKS	82	6	77	6	-	171
HOOKS	321,000	10,000	203,000	4,200	-	538,200
DIP NETS, COMMON	83	-	260	-	44	387

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1964 - Continued

ITEM	MAINE	NEW HAMPSHIRE	MASSA-CHUSETTS	RHODE ISLAND	CONNECT-ICUT	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
GEAR - CONTINUED						
HARPOONS:						
SWORDFISH.	-	-	29	6	3	38
OTHER.	19	2	9	-	-	30
SPEARS	-	-	11	1	-	12
DREDGES:						
CLAM	-	-	40	31	7	78
YARDS AT MOUTH	-	-	37	31	7	75
MUSSEL	-	-	2	1	-	3
YARDS AT MOUTH	-	-	2	2	-	4
OYSTER, COMMON	4	-	20	-	17	41
YARDS AT MOUTH	4	-	16	-	23	43
SCALLOP.	39	-	1,294	18	-	1,345
YARDS AT MOUTH	53	-	1,303	18	-	1,363
TONGS:						
OYSTER	-	-	12	20	8	40
OTHER.	-	-	180	876	13	1,069
RAKES:						
OYSTER	-	-	2	-	-	2
OTHER.	214	-	1,304	218	-	1,736
HOES	2,437	34	596	65	1	3,133
FORKS.	-	-	22	-	-	22
DIVING OUTFITS	2	-	81	-	-	83

CATCH BY STATES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	MAINE		NEW HAMPSHIRE		MASSACHUSETTS	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES.	1,480	24	75	1	5,529	63
ANGLERFISH.	-	-	-	-	30	1
BILLFISH.	-	-	-	-	(1)	(1)
BLUEFISH.	-	-	-	-	42	7
BONITO.	-	-	-	-	14	2
BUTTERFISH.	6	1	-	-	69	11
COD	2,400	107	60	4	34,802	2,383
CUSK.	371	18	12	1	1,936	99
EELS:						
COMMON.	23	5	5	1	18	5
CONGER.	-	-	-	-	1	(1)
FLOUNDERS:						
BLACKBACK	75	4	-	-	13,901	1,324
DAB	573	26	-	-	5,531	377
FLUKE	-	-	-	-	1,384	449
GRAY SOLE	498	40	-	-	2,907	317
LEMON SOLE.	2	(1)	-	-	2,084	427
YELLOWTAIL.	5	(1)	-	-	70,974	4,879
TOTAL FLOUNDERS.	1,153	70	-	-	96,781	7,773
HADDOCK	2,948	260	55	6	130,373	11,568
HAKE:						
RED	-	-	-	-	2,876	33
WHITE	3,554	129	1	(1)	3,251	177
HALIBUT	77	25	2	1	228	73
HERRING, SEA.	60,866	1,275	-	-	2,051	36
LAUNCE.	-	-	-	-	186	12
MACKEREL.	488	18	2	(1)	3,208	206
MENHADEN.	-	-	-	-	2	(1)
OCEAN PERCH	58,936	2,500	-	-	30,332	1 281
OCEAN POUT.	-	-	-	-	2,453	33
POLLOCK	1,312	44	8	1	11,954	613
SALMON.	1	(1)	-	-	-	-
SCUP OR PORGY	-	-	-	-	490	37
SEA BASS.	-	-	-	-	10	2
SHAD.	-	-	-	-	39	3
SHARKS:						
GRAYFISH.	188	1	-	-	-	-
UNCLASSIFIED.	(1)	(1)	-	-	11	(1)
TOTAL SHARKS	188	1	-	-	11	(1)

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	MAINE		NEW HAMPSHIRE		MASSACHUSETTS	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
FISH - CONTINUED						
SKATES	-	-	-	-	62	2
SMELT	185	41	68	27	-	-
STRIPED BASS	-	-	-	-	522	78
STURGEON	(1)	(1)	-	-	4	(1)
SWORDFISH	241	84	-	-	1,149	326
TAUTOG	-	-	-	-	10	(1)
TILEFISH	-	-	-	-	226	19
TUNA:						
BLUEFIN	51	4	8	1	2,082	145
SKIPJACK	-	-	-	-	1,154	84
TOTAL TUNA	51	4	8	1	3,236	229
WHITE PERCH	-	-	-	-	25	3
WHITING	25,304	373	-	-	58,067	1,263
WOLFFISH	26	1	-	-	801	37
UNCLASSIFIED:						
FOR FOOD	(1)	(1)	-	-	6,690	414
BAIT, REDUCTION, AND ANIMAL FOOD	1,735	13	-	-	24,529	250
TOTAL FISH	161,345	4,993	296	43	422,007	27,041
SHELLFISH, ETC.						
CRABS:						
GREEN	-	-	38	3	21	2
ROCK	1,964	82	10	(1)	50	12
TOTAL CRABS	1,964	82	48	3	71	14
LOBSTERS, NORTHERN	21,413	14,182	850	544	5,488	3,316
SHRIMP	925	112	-	-	7	1
CLAMS:						
HARD:						
PUBLIC	2	2	-	-	1,425	999
PRIVATE	-	-	-	-	15	13
RAZOR	-	-	-	-	9	4
SOFT, PUBLIC	1,798	827	-	-	801	533
SURF	-	-	-	-	13	3
TOTAL CLAMS	1,800	829	-	-	2,263	1,552
CONCHS	-	-	-	-	32	5
MUSSELS, SEA	15	1	-	-	179	16
OYSTERS, MARKET:						
PUBLIC:						
SPRING	2	1	-	-	11	15
FALL	-	-	-	-	12	14
PRIVATE:						
SPRING	-	-	-	-	15	20
FALL	-	-	-	-	18	27
TOTAL OYSTERS	2	1	-	-	56	76
PERIWINKLES AND COCKLES	48	13	-	-	-	-
SCALLOPS:						
BAY	-	-	-	-	439	557
SEA	917	502	-	-	13,612	7,450
SQUID	-	-	-	-	238	12
SEA URCHINS	121	3	-	-	-	-
IRISH MOSS	2,495	44	-	-	2,000	35
BLOODWORMS	758	745	2	2	58	57
SANDWORMS	772	451	13	9	45	52
TOTAL SHELLFISH, ETC.	31,230	16,965	913	558	24,488	13,143
GRAND TOTAL	192,575	21,958	1,209	601	446,495	40,184

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	RHODE ISLAND		CONNECTICUT		TOTAL	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES	140	2	15	(1)	7,239	90
ANCHOVIES	74	2	-	-	74	2
ANGLERFISH	14	(1)	-	-	44	1
BILLFISH	-	-	-	-	(1)	(1)
BLUEFISH	90	13	60	9	192	29
BONITO	24	4	-	-	38	6
BUTTERFISH	2,671	242	123	12	2,869	266
CARP	-	-	3	1	3	1
CATFISH AND BULLHEADS	-	-	1	(1)	1	(1)
COD	444	35	147	12	37,853	2,541
CUSK	-	-	-	-	2,319	118
EELS:						
COMMON	31	8	18	4	95	23
CONGER	33	1	-	-	34	1
FLOUNDERS:						
BLACKBACK	4,080	216	957	52	19,013	1,596
DAB	4	(1)	(1)	(1)	6,108	403
FLUKE	678	217	136	44	2,198	710
GRAY SOLE	62	4	4	(1)	3,471	361
LEMON SOLE	15	3	4	1	2,105	431
YELLOWTAIL	8,249	471	49	3	79,277	5,353
TOTAL FLOUNDERS	13,088	911	1,150	100	112,172	8,854
HADDOCK	68	5	6	(1)	133,450	11,839
HAKE:						
RED	161	3	27	1	3,064	37
WHITE	51	2	-	-	6,857	308
HALIBUT	-	-	-	-	307	99
HERRING, SEA	259	10	26	1	63,202	1,324
KING WHITING OR "KINGFISH"	(1)	(1)	-	-	(1)	(1)
LAUNCE	-	-	-	-	186	12
MACKEREL	194	24	6	1	3,898	249
MENHADEN	-	-	4	(1)	6	(1)
MULLET, BLACK	1	(1)	-	-	1	(1)
OCEAN PERCH	-	-	-	-	89,268	3,781
OCEAN POUT	731	11	-	-	3,184	44
POLLOCK	8	(1)	1	(1)	13,283	658
SALMON	-	-	-	-	1	(1)
SCUP OR PORGY	8,673	528	722	82	9,885	647
SEA BASS	151	31	28	5	189	38
SEA ROBIN	88	1	7	(1)	95	1
SEA TROUT OR WEAKFISH, GRAY	1	(1)	(1)	(1)	1	(1)
SHAD	3	(1)	278	58	320	61
SHARKS:						
GRAYFISH	1	(1)	10	(1)	199	1
UNCLASSIFIED	2	(1)	(1)	(1)	13	(1)
TOTAL SHARKS	3	(1)	10	(1)	212	1
SKATES	14	1	7	(1)	83	3
SMELT	(1)	(1)	4	2	257	70
STRIPED BASS	75	12	35	5	632	95
STURGEON	4	(1)	11	1	19	1
SUCKERS	-	-	1	(1)	1	(1)
SWORDFISH	65	21	1	(1)	1,456	431
TAUTOG	62	3	12	1	84	4
TILEFISH	935	57	1	(1)	1,162	76
TUNA:						
BLUEFIN	39	2	(1)	(1)	2,180	152
SKIPJACK	-	-	-	-	1,154	84
TOTAL TUNA	39	2	(1)	(1)	3,334	236
WHITE PERCH	19	3	-	-	44	6
WHITING	3,905	104	396	10	87,672	1,750
WOLFFISH	-	-	-	-	827	38
UNCLASSIFIED:						
FOR FOOD	6	1	(1)	(1)	6,696	415
BAIT, REDUCTION, AND ANIMAL FOOD	1,235	12	400	5	27,899	280
TOTAL FISH	33,360	2,049	3,500	310	620,508	34,436

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	RHODE ISLAND		CONNECTICUT		TOTAL	
SHELLFISH, ETC.	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CRABS:						
BLUE, HARD	-	-	(1)	(1)	(1)	(1)
GREEN	4	(1)	-	-	63	5
ROCK	208	24	-	-	2,232	118
TOTAL CRABS	212	24	(1)	(1)	2,295	123
LOBSTERS, NORTHERN	996	599	571	379	29,318	19,020
SHRIMP	-	-	-	-	932	113
CLAMS:						
HARD:						
PUBLIC	1,827	956	5	2	3,259	1,959
PRIVATE	-	-	326	136	341	149
OCEAN QUAHOG	113	11	-	-	113	11
RAZOR	-	-	-	-	9	4
SOFT, PUBLIC	64	29	(1)	(1)	2,663	1,389
SURF	-	-	-	-	13	3
TOTAL CLAMS	2,004	996	331	138	6,398	3,515
CONCHS	47	10	68	12	147	27
MUSSELS, SEA	(1)	(1)	-	-	194	17
OYSTERS, MARKET:						
PUBLIC:						
SPRING	5	5	-	-	18	21
FALL	8	8	1	1	21	23
PRIVATE:						
SPRING	-	-	46	84	61	104
FALL	-	-	77	151	95	178
TOTAL OYSTERS	13	13	124	236	195	326
PERIWINKLES AND COCKLES	-	-	-	-	48	13
SCALLOPS:						
BAY	2	3	25	35	466	595
SEA	7	3	-	-	14,536	7,955
SQUID	287	43	31	3	556	58
SEA URCHINS	-	-	-	-	121	3
IRISH MOSS	-	-	-	-	4,495	79
BLOODWORMS	-	-	-	-	818	804
SANDWORMS	-	-	-	-	830	512
TOTAL SHELLFISH, ETC.	3,568	1,691	1,150	803	61,349	33,160
GRAND TOTAL	36,928	3,740	4,650	1,113	681,857	67,596

1/ LESS THAN 500 POUNDS OR $500.

NOTE:--STATISTICS ON THE CATCH ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS. CLAMS, CONCHS, MUSSELS, OYSTERS, AND PERIWINKLES AND COCKLES ARE REPORTED IN WEIGHT OF TOTAL MEATS. SCALLOPS ARE REPORTED IN WEIGHT OF EDIBLE MEATS.

DIP NET

CATCH OF CERTAIN SHELLFISH, 1964

(NUMBER AND BUSHELS)

SPECIES		MAINE		NEW HAMPSHIRE		MASSACHUSETTS	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CRABS:							
GREEN	NUMBER	-	-	548,736	$3,200	302,948	$1,708
ROCK.	DO	5,891,229	$82,345	30,000	300	150,900	11,231
CLAMS:							
HARD:	U. S. STANDARD						
PUBLIC. . . .	BUSHELS	209	1,764	-	-	129,582	999,067
PRIVATE . . .	DO	-	-	-	-	1,382	12,519
RAZOR	DO	-	-	-	-	569	3,900
SOFT, PUBLIC. .	DO	119,876	826,784	-	-	61,631	533,131
SURF.	DO	-	-	-	-	1,191	2,778
CONCHS.	DO	-	-	-	-	2,127	4,648
MUSSELS, SEA. . .	DO	1,027	1,024	-	-	17,850	16,250
OYSTERS, MARKET:							
PUBLIC:							
SPRING. . . .	DO	199	1,201	-	-	1,615	14,706
FALL.	DO	-	-	-	-	1,892	14,216
PRIVATE:							
SPRING. . . .	DO	-	-	-	-	2,308	20,600
FALL.	DO	-	-	-	-	2,818	26,737
PERIWINKLES AND							
COCKLES.	DO	2,672	12,886	-	-	-	-
SCALLOPS:							
BAY	DO	-	-	-	-	73,233	556,717
SEA	DO	152,815	501,752	-	-	2,268,633	7,450,189

SPECIES		RHODE ISLAND		CONNECTICUT		TOTAL	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CRABS:							
BLUE, HARD. . .	NUMBER	-	-	240	$30	240	$30
GREEN	DO	49,644	$450	-	-	901,328	5,358
ROCK.	DO	624,300	24,114	-	-	6,696,429	117,990
CLAMS:							
HARD:	U. S. STANDARD						
PUBLIC. . . .	BUSHELS	152,267	956,233	450	2,198	282,508	1,959,262
PRIVATE . . .	DO	-	-	27,192	136,000	28,574	148,519
OCEAN QUAHOG. .	DO	11,260	11,263	-	-	11,260	11,263
RAZOR	DO	-	-	-	-	569	3,900
SOFT, PUBLIC. .	DO	4,900	29,347	23	200	186,430	1,389,462
SURF.	DO	-	-	-	-	1,191	2,778
CONCHS.	DO	3,147	10,410	4,560	12,019	9,834	27,077
MUSSELS, SEA. . .	DO	30	52	-	-	18,907	17,326
OYSTERS, MARKET:							
PUBLIC:							
SPRING. . . .	DO	700	5,135	-	-	2,514	21,042
FALL.	DO	1,143	7,982	104	905	3,139	23,103
PRIVATE:							
SPRING. . . .	DO	-	-	5,935	83,734	8,243	104,334
FALL.	DO	-	-	10,039	150,962	12,857	177,699
PERIWINKLES AND							
COCKLES.	DO	-	-	-	-	2,672	12,886
SCALLOPS:							
BAY	DO	300	2,736	4,000	35,216	77,533	594,669
SEA	DO	1,100	3,485	-	-	2,422,548	7,955,426

NOTE:--THE CAPACITY OF A U. S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

AVERAGE WEIGHTS OF CERTAIN SHELLFISH, 1964

SPECIES		MAINE	NEW HAMPSHIRE	MASSACHUSETTS	RHODE ISLAND	CONNECTICUT
		QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
CRABS:						
BLUE, HARD. . .	NUMBER PER POUND	-	-	-	-	2.40
GREEN	DO	-	14.29	14.29	13.79	-
ROCK.	DO	3.00	3.00	3.00	3.00	-
CLAMS:						
HARD:	LBS. OF MEATS					
PUBLIC. . . .	PER U. S.	11.00	-	11.00	12.00	12.00
PRIVATE . . .	STANDARD BUSHEL	-	-	11.00	-	12.00
OCEAN QUAHOG. .	DO	-	-	-	10.00	-
RAZOR	DO	-	-	16.00	-	-
SOFT, PUBLIC. .	DO	15.00	-	13.00	13.00	13.00
SURF.	DO	-	-	11.00	-	-
CONCHS.	DO	-	-	15.00	15.00	15.00
MUSSELS, SEA. . .	DO	15.00	-	10.00	10.00	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING. . . .	DO	7.50	-	6.50	7.00	-
FALL.	DO	-	-	6.50	7.00	7.70
PRIVATE:						
SPRING. . . .	DO	-	-	6.50	-	7.70
FALL.	DO	-	-	6.53	-	7.70
PERIWINKLES AND						
COCKLES.	DO	18.00	-	-	-	-
SCALLOPS:						
BAY	DO	-	-	6.00	6.00	6.20
SEA	DO	6.00	-	6.00	6.00	-

NOTE:--THE CAPACITY OF A U. S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

MANUFACTURED FISHERY PRODUCTS, 1964

ITEM		MAINE		NEW HAMPSHIRE	
		QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES:					
FILLETS, SALTED	POUNDS	(1)	(1)	-	-
SMOKED	DO	4,866	$487	-	-
COD:					
FILLETS, FRESH AND FROZEN	DO	179,985	48,855	-	-
SALTED (WHOLE, FILLETS AND STRIPS)	DO	(1)	(1)	-	-
SMOKED	DO	6,450	2,406	-	-
DRIED	DO	(1)	(1)	-	-
CUSK:					
FILLETS, FRESH AND FROZEN	DO	77,360	24,640	-	-
SALTED	DO	(1)	(1)	-	-
FLOUNDER FILLETS, FRESH AND FROZEN	DO	20,268	7,565	-	-
HADDOCK:					
FILLETS, FRESH AND FROZEN	DO	750,862	292,659	-	-
CANNED SPECIALTIES (CREAMED)	STANDARD CASES	(1)	(1)	-	-
SMOKED	POUNDS	(1)	(1)	-	-
HAKE:					
FILLETS, FRESH AND FROZEN	DO	177,197	52,700	-	-
SALTED	DO	(1)	(1)	-	-
HALIBUT STEAKS, FROZEN	DO	(1)	(1)	-	-
HERRING, SEA:					
CANNED:					
SARDINES	STANDARD CASES	865,751	7,583,821	-	-
SPECIALTIES (SNACKS, TIDBITS, ETC.)	DO	8,100	100,741	-	-
SMOKED	POUNDS	(1)	(1)	-	-
MEAL AND SCRAP	TONS	5,245	605,122	-	-
OIL	1,000 POUNDS	2,461	203,555	-	-
MACKEREL, CANNED	STANDARD CASES	(1)	(1)	-	-
OCEAN PERCH FILLETS:					
FRESH AND FROZEN	POUNDS	15,435,639	4,080,349	-	-
BREADED AND COOKED	DO	(1)	(1)	-	-
POLLOCK:					
FILLETS, FRESH AND FROZEN	DO	383,503	68,229	-	-
SALTED (WHOLE, FILLETS AND STRIPS)	DO	(1)	(1)	-	-
SMOKED	DO	(1)	(1)	-	-
DRIED	DO	(1)	(1)	-	-
SALMON, CANNED, SPECIALTIES (SPREADS)	STANDARD CASES	(1)	(1)	-	-
TUNA, CANNED:					
REGULAR	DO	(1)	(1)	-	-
SPECIALTIES (SPREADS)	DO	(1)	(1)	-	-
WHITING FILLETS, FRESH AND FROZEN	POUNDS	451,505	79,813	-	-
WOLFFISH FILLETS, FRESH AND FROZEN	DO	(1)	(1)	-	-
CRABS:					
COOKED MEAT, FRESH	DO	144,012	188,816	-	-
CANNED:					
REGULAR	STANDARD CASES	(1)	(1)	-	-
SPECIALTIES (DIPS AND SPREADS)	DO	(1)	(1)	-	-
LOBSTERS, NORTHERN:					
FRESH AND FROZEN:					
COOKED MEAT	POUNDS	261,021	894,122	47,300	$194,775
WHOLE	DO	(1)	(1)	-	-
SPECIALTIES (DINNERS, PIES, STEWS, ETC.)	DO	(1)	(1)	-	-
CANNED:					
REGULAR	STANDARD CASES	(1)	(1)	-	-
SPECIALTIES (DIPS, NEWBURGS, SPREADS, ETC.)	DO	(1)	(1)	-	-
SHRIMP:					
RAW HEADLESS, FRESH	POUNDS	25,616	18,883	-	-
COOKED, PEELED, FRESH	DO	29,000	26,600	-	-
SPECIALTIES:					
FROZEN (CROQUETTES, DINNERS, AND IN SAUCES)	DO	(1)	(1)	-	-
CANNED (DIPS)	STANDARD CASES	(1)	(1)	-	-
CLAMS:					
SOFT, FRESH AND FROZEN, SHUCKED	GALLONS	93,586	645,006	71,004	458,637
CANNED:					
WHOLE AND MINCED	STANDARD CASES	7,954	139,277	-	-
CHOWDER AND JUICE	DO	567,194	3,718,177	-	-
SPECIALTIES (CRISPS, STEWS, ALA KING, ETC.)	DO	(1)	(1)	-	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		MAINE		NEW HAMPSHIRE	
		QUANTITY	VALUE	QUANTITY	VALUE
SCALLOPS, SPECIALTIES, FROZEN (DINNERS, ETC.)	POUNDS	(1)	(1)	-	-
UNCLASSIFIED:					
FRESH AND FROZEN, PACKAGED:					
FISH, PORTIONS, RAW:					
NOT BREADED	DO	(1)	(1)	-	-
BREADED	DO	(1)	(1)	-	-
FISH AND SHELLFISH	DO	3,284,697	$1,930,406	-	-
CANNED	STANDARD CASES	196,120	2,171,163	-	-
CURED	POUNDS	399,675	88,592	-	-
INDUSTRIAL	-	-	5,229,450	-	-
TOTAL	-	-	28,201,434	-	$653,412

ITEM		MASSACHUSETTS		RHODE ISLAND AND CONNECTICUT	
		QUANTITY	VALUE	QUANTITY	VALUE
CHUBS, SMOKED	POUNDS	(1)	(1)	-	-
COD:					
FILLETS:					
FRESH AND FROZEN	DO	5,137,508	$1,687,331	-	-
BREADED AND COOKED	DO	(1)	(1)	-	-
STEAKS, FRESH	DO	400,000	68,000	-	-
CANNED, SPECIALTIES (CAKES, FLAKES, ETC.)	STANDARD CASES	(1)	(1)	-	-
SALTED (WHOLE, FILLETS AND STRIPS)	POUNDS	(1)	(1)	-	-
SMOKED	DO	(1)	(1)	-	-
CUSK FILLETS, FRESH AND FROZEN	DO	248,424	73,495	-	-
FLOUNDER:					
FILLETS:					
FRESH AND FROZEN	DO	30,479,298	9,774,995	2,196,093	$704,081
BREADED AND COOKED	DO	1,775,520	753,758	-	-
SPECIALTIES, FROZEN (BREADED IN SAUCES AND DINNERS)	DO	761,695	523,592	-	-
HADDOCK:					
FILLETS:					
FRESH AND FROZEN	DO	35,534,153	12,908,933	-	-
BREADED AND COOKED	DO	547,402	258,658	-	-
SPECIALTIES, FROZEN (DINNERS)	DO	780,702	449,169	-	-
SMOKED	DO	(1)	(1)	-	-
HAKE FILLETS, FRESH AND FROZEN	DO	54,174	13,964	-	-
HALIBUT, FROZEN:					
STEAKS	DO	621,310	263,243	-	-
SPECIALTIES (AU GRATIN)	DO	(1)	(1)	-	-
HERRING, SEA:					
SALTED	DO	(1)	(1)	-	-
SMOKED	DO	40,570	22,015	-	-
MACKEREL:					
FILLETS, FRESH AND FROZEN	DO	24,475	7,111	-	-
SMOKED	DO	(1)	(1)	-	-
OCEAN PERCH FILLETS:					
FRESH AND FROZEN	DO	8,378,884	2,243,826	-	-
BREADED AND COOKED	DO	(1)	(1)	-	-
POLLOCK:					
FILLETS, FRESH AND FROZEN	DO	2,913,686	650,628	-	-
SALTED (WHOLE, FILLETS AND STRIPS)	DO	(1)	(1)	-	-
SMOKED	DO	(1)	(1)	-	-
SABLEFISH, SMOKED	DO	(1)	(1)	-	-
SALMON:					
STEAKS, FROZEN	DO	57,490	43,330	-	-
SMOKED	DO	(1)	(1)	-	-
SHAD FILLETS, FRESH (BONED)	DO	-	-	23,836	35,754
SMELT, COOKED, FROZEN	DO	(1)	(1)	-	-
SWORDFISH, FROZEN:					
STEAKS	DO	252,280	114,236	-	-
SPECIALTIES (DINNERS)	DO	(1)	(1)	-	-
WHITEFISH, SMOKED	DO	(1)	(1)	-	-
WHITING FILLETS, FRESH AND FROZEN	DO	1,642,854	379,729	-	-
WOLFFISH FILLETS, FRESH AND FROZEN	DO	101,545	31,463	-	-
CRABS, COOKED MEAT, FRESH	DO	96,500	185,325	-	-
LOBSTERS, NORTHERN:					
FRESH AND FROZEN, COOKED MEAT	DO	642,591	2,317,783	75,387	233,457
CANNED:					
REGULAR	STANDARD CASES	-	-	(1)	(1)
SPECIALTIES (DIPS, NEWBURGS, SPREADS, ETC.)	DO	-	-	(1)	(1)

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		MASSACHUSETTS		RHODE ISLAND AND CONNECTICUT	
		QUANTITY	VALUE	QUANTITY	VALUE
SHRIMP:					
COOKED:					
PEELED AND DEVEINED, FRESH. . .	POUNDS	(1)	(1)	-	-
BREADED, FROZEN	DO	(1)	(1)	-	-
SPECIALTIES, FROZEN (CROQUETTES, DINNERS, AND IN SAUCES).	DO	2,290,452	$1,624,167	-	-
CLAMS:					
FRESH AND FROZEN:					
SHUCKED:					
HARD AND SURF (INCLUDES OCEAN QUAHOGS)	GALLONS	127,985	365,244	320,782	$1,471,776
SOFT.	DO	95,056	531,425	(1)	(1)
BREADED, RAW AND COOKED	POUNDS	(1)	(1)	(1)	(1)
SPECIALTIES (CHOWDER BASE, STUFFED, ETC.)	DO	236,174	292,622	(1)	(1)
CANNED:					
WHOLE AND MINCED.	STANDARD CASES	-	-	(1)	(1)
CHOWDER AND JUICE	DO	(1)	(1)	(1)	(1)
SPECIALTIES (CRISPS, STEWS, ALA KING, ETC.).	DO	-	-	(1)	(1)
OYSTERS, SHUCKED FRESH.	GALLONS	-	-	(1)	(1)
SCALLOPS:					
FRESH AND FROZEN:					
BAY, SHUCKED.	DO	50,200	572,280	6,492	72,932
SEA:					
SHUCKED	POUNDS	4,832,894	2,977,815	-	-
BREADED:					
RAW	DO	905,347	642,591	(1)	(1)
COOKED.	DO	2,352,597	2,089,902	-	-
SPECIALTIES (DINNERS, ETC.) . .	DO	820,029	589,422	-	-
UNCLASSIFIED:					
FRESH AND FROZEN, PACKAGED:					
FISH:					
PORTIONS:					
RAW:					
NOT BREADED	DO	846,442	293,956	-	-
BREADED	DO	27,481,234	9,607,076	-	-
BREADED AND COOKED. . . .	DO	9,453,212	3,588,558	-	-
STICKS, BREADED:					
RAW	DO	664,776	247,233	-	-
COOKED.	DO	33,189,914	14,018,944	-	-
CAKES, COOKED	DO	989,547	349,561	-	-
FISH AND SHELLFISH.	DO	5,862,802	4,331,483	61,161	208,857
CANNED.	STANDARD CASES	1,552,190	8,887,720	33,493	292,410
CURED	POUNDS	1,539,436	1,107,235	-	-
INDUSTRIAL.	-	-	1,301,697	-	(2)
TOTAL.	-	-	86,189,515	-	3,019,267

1/ INCLUDED IN UNCLASSIFIED ITEMS.

2/ INCLUDED WITH UNCLASSIFIED FISH AND SHELLFISH.

NOTE:--SOME PRODUCTS MAY HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE CATCH WITHIN THE STATE. CERTAIN ITEMS ARE SHOWN IN AN INTERMEDIATE AND ALSO IN A MORE ADVANCED STAGE OF PROCESSING.

SUMMARY OF MANUFACTURED PRODUCTS, 1964

(VALUE IN THOUSAND DOLLARS)

ITEM		QUANTITY	VALUE
PACKAGED PRODUCTS, FRESH AND FROZEN:			
NOT BREADED:			
FISH	1,000 POUNDS	109,543	$35,148
SHELLFISH	DO	13,678	11,943
BREADED:			
FISH	DO	75,009	29,072
SHELLFISH	DO	4,807	4,489
SPECIALTIES, FISH AND SHELLFISH (NOT BREADED AND BREADED)	DO	7,029	5,792
CANNED:			
FISH	1,000 STANDARD CASES	1,093	10,214
SHELLFISH	DO	653	4,677
ANIMAL FOOD	DO	1,485	8,003
CURED:			
SALTED (INCLUDING DRIED)	1,000 POUNDS	700	244
SMOKED	DO	1,291	977
INDUSTRIAL	-	-	7,505
TOTAL	-	-	118,064

VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1964

(THOUSANDS OF DOLLARS)

STATE	VALUE
MAINE	28,202
NEW HAMPSHIRE	653
MASSACHUSETTS	86,190
RHODE ISLAND	2,644
CONNECTICUT	375
TOTAL	118,064

WHOLESALING AND MANUFACTURING, 1964

ITEM	MAINE	NEW HAMPSHIRE	MASSA-CHUSETTS	RHODE ISLAND	CONNECTI-CUT	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING:						
ESTABLISHMENTS	252	13	234	30	10	539
PERSONS ENGAGED:						
AVERAGE FOR SEASON	5,215	102	6,118	328	79	11,842
AVERAGE FOR YEAR	2,813	86	5,006	273	70	8,248

NEW ENGLAND FISHERIES
MAINE

OPERATING UNITS BY GEAR, 1964

ITEM	STOP SEINES	PURSE SEINES		BAG NETS	OTTER TRAWLS	
		HERRING	MACKEREL		FISH	SHRIMP
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	84	17	-	-	332	-
ON BOATS AND SHORE:						
REGULAR.	172	6	10	3	46	28
CASUAL	317	2	30	9	10	6
TOTAL.	573	25	40	12	388	34
VESSELS, MOTOR	22	4	-	-	73	-
GROSS TONNAGE.	397	113	-	-	7,090	-
BOATS:						
MOTOR.	128	4	8	5	40	28
OTHER.	169	11	10	5	-	-
GEAR:						
NUMBER	123	6	8	10	113	28
LENGTH, YARDS.	55,050	2,200	3,300	-	-	-
YARDS AT MOUTH	-	-	-	-	2,467	560

ITEM	WEIRS	FLOATING TRAPS	POTS AND TRAPS			GILL NETS, ANCHOR, SET OR STAKE
			CRAB	LOBSTER	BOX TRAP	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	-	-	-	36	-	9
ON BOATS AND SHORE:						
REGULAR.	75	8	2	3,071	3	1
CASUAL	60	17	9	2,680	6	5
TOTAL.	135	25	11	5,787	9	15
VESSELS, MOTOR	-	-	-	35	-	3
GROSS TONNAGE.	-	-	-	407	-	62
BOATS:						
MOTOR.	68	8	11	5,301	5	2
OTHER.	58	7	-	13	2	-
GEAR:						
NUMBER	68	12	835	754,190	5	8
SQUARE YARDS	-	-	-	-	-	40,920

ITEM	LINES		DIP NETS, COMMON	HARPOONS	DREDGES	
	HAND	LONG OR SET WITH HOOKS			OYSTER, COMMON	SCALLOP
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	6	11	-	2	-	57
ON BOATS AND SHORE:						
REGULAR.	56	103	6	18	-	36
CASUAL	263	13	77	9	4	8
TOTAL.	325	127	83	29	4	101
VESSELS, MOTOR	3	3	-	1	-	7
GROSS TONNAGE.	22	203	-	11	-	459
BOATS, MOTOR	46	79	10	18	4	28
GEAR:						
NUMBER	325	82	83	19	4	39
YARDS AT MOUTH	-	-	-	-	4	63
HOOKS.	331	321,000	-	-	-	-

ITEM	RAKES	HOES	DIVING OUTFITS	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	-	-	-	-	535
ON BOATS AND SHORE:					
REGULAR.	-	1,340	-	46	4,104
CASUAL	214	1,097	2	39	3,928
TOTAL.	214	2,437	2	85	8,567
VESSELS, MOTOR	-	-	-	-	140
GROSS TONNAGE.	-	-	-	-	8,496
BOATS:					
MOTOR.	135	-	-	-	5,445
OTHER.	-	-	-	5	266
GEAR, NUMBER	214	2,437	2	-	-

MAINE - CATCH BY GEAR, 1964

SPECIES	STOP SEINES		PURSE SEINES			
			HERRING		MACKEREL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HERRING, SEA	48,198,700	$1,003,840	7,328,600	$158,266	-	-
MACKEREL	800	70	-	-	28,400	$1,234
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	31,100	233	22,400	134	-	-
TOTAL	48,230,600	1,004,143	7,351,000	158,400	28,400	1,234

SPECIES	BAG NETS		OTTER TRAWLS			
			FISH		SHRIMP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUTTERFISH	-	-	200	$50	-	-
COD	-	-	1,361,500	63,203	-	-
CUSK	-	-	292,200	13,951	-	-
FLOUNDERS:						
BLACKBACK	-	-	75,000	3,776	-	-
DAB	-	-	572,600	26,266	-	-
GRAY SOLE	-	-	496,800	40,008	-	-
LEMON SOLE	-	-	1,500	77	-	-
YELLOWTAIL	-	-	5,400	156	-	-
HADDOCK	-	-	2,675,800	237,698	-	-
HAKE, WHITE	-	-	721,100	31,235	-	-
HALIBUT	-	-	27,100	8,489	-	-
HERRING, SEA	-	-	269,100	6,114	-	-
OCEAN PERCH	-	-	58,936,200	2,500,433	-	-
POLLOCK	-	-	883,000	25,856	-	-
SHARKS, GRAYFISH	-	-	8,700	57	-	-
SMELT	73,900	$16,435	-	-	-	-
WHITING	-	-	25,303,100	373,481	-	-
WOLFFISH	-	-	25,400	861	-	-
UNCLASSIFIED:						
FOR FOOD	-	-	200	8	-	-
BAIT, REDUCTION, AND ANIMAL FOOD	-	-	1,308,300	9,792	-	-
SHRIMP	-	-	-	-	924,700	$111,626
TOTAL	73,900	16,435	92,963,200	3,341,511	924,700	111,626

SPECIES	WEIRS		FLOATING TRAPS		POTS AND TRAPS	
					CRAB	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUTTERFISH	-	-	5,700	$624	-	-
HERRING, SEA	5,061,800	$106,232	7,800	136	-	-
MACKEREL	28,600	1,716	430,300	15,056	-	-
SALMON	-	-	500	385	-	-
WHITING	-	-	600	9	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	5,700	76	-	-
CRABS, ROCK	-	-	-	-	1,963,700	$82,345
TOTAL	5,090,400	107,948	450,600	16,286	1,963,700	82,345

SPECIES	POTS AND TRAPS - CONTINUED				GILL NETS, ANCHOR, SET OR STAKE	
	LOBSTER		BOX TRAPS			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
COD	-	-	-	-	510,500	$29,869
CUSK	-	-	-	-	1,800	102
EELS, COMMON	-	-	22,300	$4,899	-	-
HADDOCK	-	-	-	-	86,100	7,396
HAKE, WHITE	-	-	-	-	160,800	9,919
HALIBUT	-	-	-	-	300	110
POLLOCK	-	-	-	-	311,500	15,452

(CONTINUED ON NEXT PAGE)

MAINE - CATCH BY GEAR, 1964 - Continued

SPECIES	POTS AND TRAPS - CONTINUED				GILL NETS, ANCHOR, SET OR STAKE	
	LOBSTER		BOX TRAPS			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SHARKS:						
GRAYFISH	-	-	-	-	161,000	$1,044
UNCLASSIFIED	-	-	-	-	200	11
SMELT	-	-	-	-	13,800	2,625
STURGEON	-	-	-	-	100	7
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	-	-	303,100	1,901
LOBSTERS, NORTHERN	21,413,400	$14,182,536	-	-	-	-
TOTAL	21,413,400	14,182,536	22,300	$4,899	1,549,200	68,436

SPECIES	LINES				DIP NETS, COMMON	
	HAND		LONG OR SET WITH HOOKS			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	-	-	1,479,600	$23,543
COD	232,400	$6,043	295,700	$8,360	-	-
CUSK	3,800	238	73,000	3,530	-	-
EELS, COMMON	-	-	-	-	600	120
FLOUNDERS:						
DAB	-	-	100	4	-	-
GRAY SOLE	-	-	800	45	-	-
HADDOCK	13,100	1,028	173,200	13,643	-	-
HAKE, WHITE	17,200	795	2,655,300	87,459	-	-
HALIBUT	3,900	1,459	45,500	14,864	-	-
POLLOCK	78,000	1,763	39,800	887	-	-
SHARKS:						
GRAYFISH	-	-	17,900	115	-	-
UNCLASSIFIED	200	9	-	-	-	-
SMELT	88,900	20,284	-	-	8,200	1,751
SWORDFISH	-	-	241,100	83,838	-	-
TUNA, BLUEFIN	500	28	10,700	927	-	-
WHITING	400	12	-	-	-	-
WOLFFISH	200	10	200	4	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	50,300	328	13,900	279
SEA URCHINS	-	-	-	-	120,900	3,377
TOTAL	438,600	31,669	3,603,600	214,004	1,623,200	29,070

SPECIES	HARPOONS		DREDGES			
			OYSTER		SCALLOP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SWORDFISH	40,100	$2,766	-	-	-	-
OYSTERS, MARKET, PUBLIC, SPRING	-	-	300	$247	-	-
SCALLOPS, SEA	-	-	-	-	916,900	$501,752
TOTAL	40,100	2,766	300	247	916,900	501,752

SPECIES	RAKES		HOES		DIVING OUTFITS		BY HAND	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS:								
HARD, PUBLIC	-	-	2,300	$1,764	-	-	-	-
SOFT, PUBLIC	-	-	1,798,100	826,784	-	-	-	-
MUSSELS, SEA	-	-	15,400	1,024	-	-	-	-
OYSTERS, MARKET, PUBLIC, SPRING	-	-	-	-	1,200	$954	-	-
PERIWINKLES AND COCKLES	-	-	-	-	-	-	48,100	$12,886
IRISH MOSS	2,495,000	$43,663	-	-	-	-	-	-
BLOODWORMS	-	-	758,000	745,315	-	-	-	-
SANDWORMS	-	-	772,400	450,544	-	-	-	-
TOTAL	2,495,000	43,663	3,346,200	2,025,431	1,200	954	48,100	12,886

NEW HAMPSHIRE

OPERATING UNITS BY GEAR, 1964

ITEM	BAG NETS	WEIRS	POTS AND TRAPS		GILL NETS, DRIFT
			CRAB	LOBSTER	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	-	-	2	98	2
CASUAL	5	7	2	136	-
TOTAL	5	7	4	234	2
BOATS:					
MOTOR	-	2	2	174	1
OTHER	-	3	-	2	-
GEAR:					
NUMBER	5	7	150	17,000	1
SQUARE YARDS	-	-	-	-	3,000

ITEM	LINES		HARPOONS	HOES	TOTAL, EXCLUSIVE OF DUPLICATION
	HAND	LONG OR SET WITH HOOKS			
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	10	12	4	-	100
CASUAL	175	-	-	34	302
TOTAL	185	12	4	34	402
BOATS:					
MOTOR	5	6	2	-	179
OTHER	-	-	-	-	5
GEAR:					
NUMBER	340	6	2	34	-
HOOKS	740	10,000	-	-	-

NEW HAMPSHIRE - CATCH BY GEAR, 1964

SPECIES	BAG NETS		WEIRS		POTS AND TRAPS			
					CRAB		LOBSTER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	75,000	$1,125	-	-	-	-
EELS, COMMON	-	-	5,000	1,200	-	-	-	-
SMELT	3,000	$1,050	25,000	6,750	-	-	-	-
CRABS:								
GREEN	-	-	-	-	38,400	$3,200	-	-
ROCK	-	-	-	-	-	-	10,000	$300
LOBSTERS, NORTHERN	-	-	-	-	-	-	850,000	544,000
TOTAL	3,000	1,050	105,000	9,075	38,400	3,200	860,000	544,300

SPECIES	GILL NETS, DRIFT		LINES			
			HAND		LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
COD	-	-	40,000	$2,800	20,000	$1,400
CUSK	-	-	-	-	12,000	600
HADDOCK	-	-	-	-	55,000	6,050
HAKE, WHITE	-	-	-	-	1,000	70
HALIBUT	-	-	500	200	2,000	800
MACKEREL	1,500	$300	-	-	-	-
POLLOCK	-	-	6,000	300	1,500	75
SMELT	-	-	40,000	18,800	-	-
TUNA, BLUEFIN	-	-	3,000	150	-	-
TOTAL	1,500	300	89,500	22,250	91,500	8,995

SPECIES	HARPOONS		HOES	
	POUNDS	VALUE	POUNDS	VALUE
TUNA, BLUEFIN	5,000	$250	-	-
BLOODWORMS	-	-	2,000	$2,000
SANDWORMS	-	-	13,000	9,100
TOTAL	5,000	250	15,000	11,100

NEW ENGLAND FISHERIES

MASSACHUSETTS

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	PURSE SEINES		OTTER TRAWLS		POUND NETS, FISH	FLOATING TRAPS
		TUNA	OTHER	FISH	LOBSTER		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:							
ON VESSELS	-	89	39	2,477	164	12	5
ON BOATS AND SHORE:							
REGULAR.	3	-	-	4	-	51	17
CASUAL	19	-	-	3	-	2	6
TOTAL.	22	89	39	2,484	164	65	28
VESSELS, MOTOR	-	8	3	401	24	3	2
GROSS TONNAGE.	-	1,626	684	29,871	2,473	33	25
BOATS:							
MOTOR.	3	6	4	4	-	23	9
OTHER.	3	2	2	-	-	15	12
GEAR:							
NUMBER	7	8	3	405	24	49	13
LENGTH, YARDS.	420	5,800	1,825	-	-	-	-
YARDS AT MOUTH	-	-	-	10,875	680	-	-

ITEM	POTS AND TRAPS				GILL NETS	
	CONCH	CRAB	EEL	LOBSTER	ANCHOR, SET OR STAKE	DRIFT
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	-	-	-	-	15	5
ON BOATS AND SHORE:						
REGULAR.	1	2	1	434	12	24
CASUAL	1	-	4	982	5	13
TOTAL.	2	2	5	1,416	32	42
VESSELS, MOTOR	-	-	-	-	4	2
GROSS TONNAGE.	-	-	-	-	109	42
BOATS:						
MOTOR.	2	2	5	1,077	10	24
OTHER.	-	-	-	94	-	-
GEAR:						
NUMBER	135	40	175	106,624	14	26
SQUARE YARDS	-	-	-	-	79,000	250,820

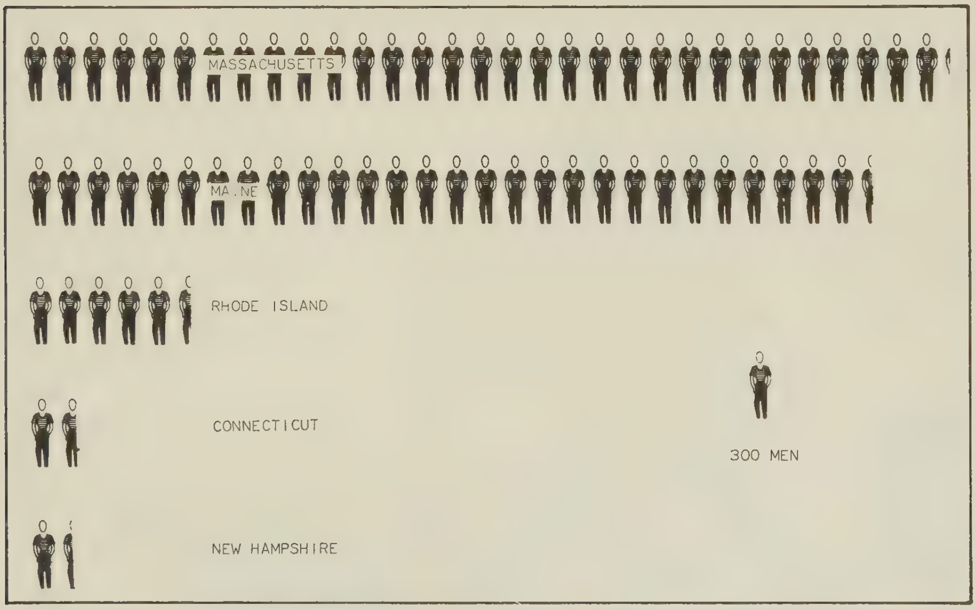
ITEM	LINES			DIP NETS, COMMON	HARPOONS	
	HAND	TROLL	LONG OR SET WITH HOOKS		SWORDFISH	OTHER
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	8	-	88	-	21	-
ON BOATS AND SHORE:						
REGULAR.	67	-	83	11	-	4
CASUAL	1,767	15	29	249	57	16
TOTAL.	1,842	15	200	260	78	20
VESSELS, MOTOR	3	-	20	-	5	-
GROSS TONNAGE.	72	-	935	-	157	-
BOATS:						
MOTOR.	376	6	57	250	24	9
OTHER.	-	-	-	-	1	-
GEAR:						
NUMBER	1,982	15	77	260	29	9
HOOKS.	2,226	15	203,000	-	-	-

ITEM	SPEARS	DREDGES				TONGS	
		CLAM	MUSSEL	OYSTER, COMMON	SCALLOP	OYSTER	OTHER
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:							
ON VESSELS	-	27	-	-	653	-	-
ON BOATS AND SHORE:							
REGULAR.	-	33	-	6	73	6	54
CASUAL	11	31	4	23	679	6	126
TOTAL.	11	91	4	29	1,405	12	180
VESSELS, MOTOR	-	9	-	-	62	-	-
GROSS TONNAGE.	-	177	-	-	5,788	-	-
BOATS, MOTOR	3	31	2	17	409	12	180
GEAR:							
NUMBER	11	40	2	20	1,294	12	180
YARDS AT MOUTH	-	37	2	16	1,303	-	-

MASSACHUSETTS - OPERATING UNITS BY GEAR, 1964 - Continued

ITEM	RAKES		HOES	FORKS	DIVING OUTFITS	TOTAL, EXCLUSIVE OF DUPLICATION
	OYSTER	OTHER				
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	-	-	-	-	-	3,298
ON BOATS AND SHORE:						
REGULAR	1	153	111	5	1	883
CASUAL.	1	1,151	485	17	80	5,166
TOTAL	2	1,304	596	22	81	9,347
VESSELS, MOTOR.	-	-	-	-	-	489
GROSS TONNAGE	-	-	-	-	-	38,086
BOATS:						
MOTOR	-	1,112	5	-	11	3,171
OTHER	-	-	-	-	4	133
GEAR, NUMBER.	2	1,304	596	22	81	-

FISHERMEN EMPLOYED IN THE NEW ENGLAND FISHERIES, 1964



MASSACHUSETTS - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		PURSE SEINES			
			TUNA		OTHER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES.	1,190,300	$18,611	-	-	3,998,600	$39,985
HERRING, SEA.	-	-	-	-	166,900	3,488
LAUNCE.	186,400	11,650	-	-	-	-
MACKEREL.	-	-	-	-	1,334,200	65,533
SHAD.	-	-	-	-	900	17
TUNA:						
BLUEFIN	-	-	1,574,400	$113,503	-	-
SKIPJACK.	-	-	1,154,000	84,269	-	-
WHITE PERCH	24,000	2,880	-	-	-	-
TOTAL.	1,400,700	33,141	2,728,400	197,772	5,500,600	109,023

SPECIES	OTTER TRAWLS				POUND NETS	
	FISH		LOBSTER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANGLERFISH.	29,800	$883	-	-	-	-
BILLFISH.	-	-	-	-	300	$12
BLUEFISH.	900	160	-	-	10,400	1,630
BONITO.	-	-	-	-	13,800	2,198
BUTTERFISH.	53,500	7,662	-	-	15,600	2,873
COD	31,175,300	2,136,985	600	$50	1,600	99
CUSK.	1,412,000	71,771	-	-	-	-
EELS:						
COMMON.	-	-	-	-	1,400	140
CONGER.	700	29	-	-	-	-
FLOUNDERS:						
BLACKBACK	13,715,800	1,308,049	1,500	300	100	7
DAB	5,517,600	376,149	-	-	-	-
FLUKE	1,369,100	445,231	10,500	3,150	1,600	367
GRAY SOLE	2,902,700	317,057	-	-	-	-
LEMON SOLE.	2,064,900	424,484	-	-	-	-
YELLOWTAIL.	70,895,300	4,875,579	2,800	280	-	-
HADDOCK	127,099,600	11,224,467	600	65	-	-
HAKE:						
RED	2,875,200	32,774	-	-	400	4
WHITE	3,141,000	171,691	-	-	-	-
HALIBUT	162,000	42,643	-	-	-	-
HERRING, SEA.	109,200	3,481	-	-	1,714,000	30,243
MACKEREL.	1,600	312	-	-	1,053,200	68,030
MENHADEN.	-	-	-	-	2,100	35
OCEAN PERCH	30,331,500	1,280,454	-	-	-	-
OCEAN POUT.	2,453,100	32,625	-	-	-	-
POLLOCK	11,398,900	588,787	-	-	38,100	1,738
SCUP OR PORGY	461,600	34,536	-	-	28,500	2,379
SEA BASS.	10,400	1,687	-	-	-	-
SHAD.	5,700	312	-	-	32,700	2,498
SHARKS, UNCLASSIFIED. .	2,100	91	-	-	700	28
SKATES.	62,000	2,360	-	-	-	-
STRIPED BASS.	100	18	-	-	21,200	3,311
STURGEON.	3,700	384	-	-	-	-
TAUTOG.	1,700	48	-	-	8,500	171
TILEFISH.	225,800	19,307	-	-	-	-
TUNA, BLUEFIN	-	-	-	-	346,200	19,178
WHITING	58,049,100	1,262,555	-	-	17,200	444
WOLFFISH.	792,600	36,350	-	-	-	-
UNCLASSIFIED:						
FOR FOOD.	5,787,000	344,309	-	-	-	-
BAIT, REDUCTION, AND ANIMAL FOOD. . . .	24,529,200	249,857	-	-	-	-
LOBSTERS, NORTHERN. . .	171,100	90,870	1,540,000	817,835	-	-
SHRIMP.	6,900	916	-	-	-	-
SQUID	26,000	1,481	-	-	211,900	10,752
TOTAL.	396,844,700	25,386,354	1,556,000	821,680	3,519,500	146,137

SPECIES	FLOATING TRAPS		POTS AND TRAPS					
			CONCH		CRAB		EEL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUTTERFISH.	100	$11	-	-	-	-	-	-
COD	14,500	1,222	-	-	-	-	-	-
EELS, COMMON.	-	-	-	-	-	-	10,300	$2,765
HERRING, SEA.	60,600	619	-	-	-	-	-	-
MACKEREL.	727,000	53,785	-	-	-	-	-	-
POLLOCK	700	34	-	-	-	-	-	-
STRIPED BASS.	300	51	-	-	-	-	-	-
WHITING	300	10	-	-	-	-	-	-
UNCLASSIFIED, FOR FOOD.	44,900	2,717	-	-	-	-	-	-
CRABS, GREEN.	-	-	-	-	21,200	$1,708	-	-
CONCHS.	-	-	27,000	$4,000	-	-	-	-
TOTAL.	848,400	58,449	27,000	4,000	21,200	1,708	10,300	2,765

(CONTINUED ON NEXT PAGE)

MASSACHUSETTS - CATCH BY GEAR, 1964 - Continued

SPECIES	POTS AND TRAPS - CONTINUED		GILL NETS				LINES	
	LOBSTER		ANCHOR, SET OR STAKE		DRIFT		HAND	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	-	-	-	-	-	-	29,900	$4,833
COD	-	-	627,000	$41,080	-	-	1,644,500	91,282
CUSK	-	-	1,700	76	-	-	5,600	106
EELS, COMMON	-	-	-	-	-	-	200	50
FLOUNDERS:								
BLACKBACK	-	-	71,700	4,311	-	-	5,000	312
LEMON SOLE	-	-	-	-	-	-	200	14
YELLOWTAIL	-	-	-	-	-	-	1,900	170
HADDOCK	-	-	272,700	24,400	-	-	269,300	21,853
HAKE, WHITE	-	-	57,500	2,210	-	-	1,300	50
HALIBUT	-	-	700	259	-	-	4,000	1,732
MACKEREL	-	-	-	-	92,300	$18,558	-	-
POLLOCK	-	-	222,000	10,344	-	-	224,200	9,377
SHARKS, UNCLASSIFIED	-	-	2,200	63	500	21	-	-
STRIPED BASS	-	-	-	-	100	21	490,200	73,441
STURGEON	-	-	700	92	-	-	-	-
TUNA, BLUEFIN	-	-	-	-	-	-	5,900	410
WHITE PERCH	-	-	-	-	-	-	600	162
WHITING	-	-	-	-	200	4	-	-
WOLFFISH	-	-	-	-	-	-	1,200	39
UNCLASSIFIED, FOR FOOD	-	-	277,200	21,951	600	26	342,800	25,161
CRABS, ROCK	50,300	$11,231	-	-	-	-	-	-
LOBSTERS, NORTHERN	3,754,000	2,393,123	-	-	-	-	-	-
SQUID	-	-	-	-	400	12	-	-
TOTAL	3,804,300	2,404,354	1,533,400	104,786	94,100	18,642	3,026,800	228,992

SPECIES	LINES - CONTINUED				DIP NETS, COMMON	
	TROLL		LONG OR SET WITH HOOKS			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	-	-	339,900	$4,278
BLUEFISH	-	-	500	$78	-	-
COD	-	-	1,337,300	112,505	-	-
CUSK	-	-	516,400	27,459	-	-
FLOUNDERS:						
BLACKBACK	-	-	48,700	6,171	-	-
DAB	-	-	100	2	-	-
GRAY SOLE	-	-	100	7	-	-
LEMON SOLE	-	-	2,300	205	-	-
YELLOWTAIL	-	-	12,900	652	-	-
HADDOCK	-	-	2,728,800	297,619	-	-
HAKE:						
RED	-	-	300	12	-	-
WHITE	-	-	50,700	2,726	-	-
HALIBUT	-	-	61,700	27,960	-	-
POLLOCK	-	-	70,100	3,202	-	-
SHARKS, UNCLASSIFIED	-	-	5,600	204	-	-
SKATES	-	-	300	10	-	-
STRIPED BASS	-	-	9,800	1,347	-	-
SWORDFISH	-	-	973,600	279,102	-	-
TUNA, BLUEFIN	16,500	$1,320	131,500	10,406	-	-
WHITING	-	-	500	20	-	-
WOLFFISH	-	-	5,600	198	-	-
UNCLASSIFIED, FOR FOOD	-	-	237,900	20,320	-	-
SCALLOPS, BAY	-	-	-	-	80,000	104,265
TOTAL	16,500	1,320	6,194,700	790,205	419,900	108,543

SPECIES	HARPOONS				SPEARS		DREDGES	
	SWORDFISH		OTHER				CLAM	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
EELS, COMMON	-	-	-	-	5,700	$1,605	-	-
SWORDFISH	175,700	$46,671	-	-	-	-	-	-
TUNA, BLUEFIN	3,500	241	3,900	$312	-	-	-	-
CLAMS:								
HARD, PUBLIC	-	-	-	-	-	-	521,600	$212,349
SURF	-	-	-	-	-	-	10,900	2,478
TOTAL	179,200	46,912	3,900	312	5,700	1,605	532,500	214,827

(CONTINUED ON NEXT PAGE)

MASSACHUSETTS - CATCH BY GEAR, 1964 - Continued

SPECIES	DREDGES - CONTINUED					
	MUSSEL		OYSTER		SCALLOP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
COD	-	-	-	-	1,000	$45
FLOUNDERS:						
BLACKBACK	-	-	-	-	57,700	5,155
DAB	-	-	-	-	13,600	665
FLUKE	-	-	-	-	2,400	493
GRAY SOLE	-	-	-	-	4,100	283
LEMON SOLE.	-	-	-	-	16,600	2,206
YELLOWTAIL.	-	-	-	-	60,900	2,200
HADDOCK	-	-	-	-	1,400	67
WOLFFISH.	-	-	-	-	1,400	50
MUSSELS, SEA.	23,000	$1,725	-	-	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING.	-	-	4,600	$5,706	-	-
FALL.	-	-	5,500	4,012	-	-
PRIVATE:						
SPRING.	-	-	7,200	9,800	-	-
FALL.	-	-	4,700	7,762	-	-
SCALLOPS:						
BAY	-	-	-	-	359,400	452,452
SEA	-	-	-	-	13,611,800	7,450,189
TOTAL.	23,000	1,725	22,000	27,280	14,130,300	7,913,805

SPECIES	TONGS				RAKES			
	OYSTER		OTHER		OYSTER		OTHER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS:								
HARD:								
PUBLIC.	-	-	212,300	$181,312	-	-	633,700	$560,321
PRIVATE	-	-	-	-	-	-	15,200	12,519
SOFT, PUBLIC.	-	-	-	-	-	-	43,400	36,790
SURF.	-	-	-	-	-	-	2,200	300
CONCHS.	-	-	4,900	648	-	-	-	-
MUSSELS, SEA.	-	-	18,800	1,319	-	-	132,000	12,900
OYSTERS, MARKET:								
PUBLIC:								
SPRING.	2,000	$1,800	-	-	-	-	3,900	7,200
FALL.	2,600	2,500	-	-	-	-	4,200	7,704
PRIVATE:								
SPRING.	5,800	6,300	-	-	2,000	$4,500	-	-
FALL.	11,300	13,500	-	-	2,400	5,475	-	-
IRISH MOSS.	-	-	-	-	-	-	2,000,000	35,000
TOTAL.	21,700	24,100	236,000	183,279	4,400	9,975	2,834,600	672,734

SPECIES	HOES		FORKS		DIVING OUTFITS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
LOBSTERS, NORTHERN. . . .	-	-	-	-	23,000	$14,657
CLAMS:						
HARD, PUBLIC.	57,800	$45,085	-	-	-	-
RAZOR	9,100	3,900	-	-	-	-
SOFT, PUBLIC.	738,500	476,343	19,300	$19,998	-	-
MUSSELS, SEA.	-	-	4,700	306	-	-
BLOODWORMS.	58,000	57,325	-	-	-	-
SANDWORMS	44,800	51,620	-	-	-	-
TOTAL.	908,200	634,273	24,000	20,304	23,000	14,657

RHODE ISLAND

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	PURSE SEINES, MACKEREL	OTTER TRAWLS		POUND NETS, FISH	FLOATING TRAPS
			FISH	LOBSTER		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	-	-	207	42	-	89
ON BOATS AND SHORE:						
REGULAR.	6	4	15	-	1	4
CASUAL	-	2	-	-	-	-
TOTAL.	6	6	222	42	1	93
VESSELS, MOTOR	-	-	63	9	-	6
GROSS TONNAGE. . . .	-	-	2,194	520	-	154
BOATS:						
MOTOR.	-	3	7	-	1	2
OTHER.	4	3	-	-	-	24
GEAR:						
NUMBER	4	3	70	9	1	19
LENGTH, YARDS. . . .	500	500	-	-	-	-
YARDS AT MOUTH . . .	-	-	1,744	246	-	-

ITEM	POTS AND TRAPS				GILL NETS, ANCHOR, SET OR STAKE	LINES
	CONCH	CRAB	EEL	LOBSTER		HAND
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	2	2	-	2	-	11
ON BOATS AND SHORE:						
REGULAR.	6	9	6	50	3	32
CASUAL	2	-	1	100	-	143
TOTAL.	10	11	7	152	3	186
VESSELS, MOTOR	1	1	-	1	-	5
GROSS TONNAGE. . . .	16	12	-	10	-	75
BOATS, MOTOR	6	5	7	130	1	46
GEAR:						
NUMBER	375	877	390	7,008	1	194
SQUARE YARDS	-	-	-	-	100	-
HOOKS.	-	-	-	-	-	361

ITEM	LINES - CONTINUED		HARPOONS, SWORDFISH	SPEARS	DREDGES	
	TROLL	LONG OR SET WITH HOOKS			CLAM	MUSSEL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	9	14	23	-	30	2
ON BOATS AND SHORE:						
REGULAR.	-	4	-	1	28	-
CASUAL	18	1	-	-	4	-
TOTAL.	27	19	23	1	62	2
VESSELS, MOTOR	4	3	6	-	15	1
GROSS TONNAGE. . . .	55	140	266	-	242	16
BOATS:						
MOTOR.	12	3	-	1	16	-
OTHER.	-	-	7	-	-	-
GEAR:						
NUMBER	27	6	6	1	31	1
YARDS AT MOUTH . . .	-	-	-	-	31	2
HOOKS.	27	4,200	-	-	-	-

ITEM	DREDGES-CONTINUED	TONGS		RAKES	HOES	TOTAL, EXCLUSIVE OF DUPLICATION
	SCALLOP	OYSTER	OTHER			
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	4	-	-	-	-	390
ON BOATS AND SHORE:						
REGULAR.	2	12	354	88	46	465
CASUAL	5	8	522	130	19	815
TOTAL.	11	20	876	218	65	1,670
VESSELS, MOTOR	2	-	-	-	-	102
GROSS TONNAGE. . . .	76	-	-	-	-	3,274
BOATS:						
MOTOR.	7	20	876	218	-	1,091
OTHER.	-	-	-	-	-	38
GEAR:						
NUMBER	18	20	876	218	65	-
YARDS AT MOUTH . . .	18	-	-	-	-	-

RHODE ISLAND - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		PURSE SEINES, MACKEREL		OTTER TRAWLS			
					FISH		LOBSTER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	140,000	$2,000	-	-	-	-	-	-
ANGLERFISH	-	-	-	-	13,600	$296	-	-
BLUEFISH	-	-	-	-	12,300	1,874	-	-
BUTTERFISH	-	-	-	-	2,384,600	189,271	-	-
COD	-	-	-	-	371,800	29,112	-	-
EELS, CONGER	-	-	-	-	32,800	957	-	-
FLOUNDERS:								
BLACKBACK	200	10	-	-	4,080,000	215,800	-	-
DAB	-	-	-	-	3,500	194	-	-
FLUKE	-	-	-	-	614,100	202,112	-	-
GRAY SOLE	-	-	-	-	62,200	4,262	-	-
LEMON SOLE	-	-	-	-	14,700	2,504	-	-
YELLOWTAIL	-	-	-	-	8,248,700	470,549	-	-
HADDOCK	-	-	-	-	67,600	4,403	-	-
HAKE:								
RED	-	-	-	-	153,500	2,907	-	-
WHITE	-	-	-	-	50,700	2,146	-	-
HERRING, SEA	-	-	-	-	225,300	8,561	-	-
KING WHITING OR "KINGFISH"	-	-	-	-	200	30	-	-
MACKEREL	-	-	20,300	$1,736	7,300	1,088	-	-
OCEAN POUT	-	-	-	-	731,500	10,721	-	-
POLLOCK	-	-	-	-	5,700	235	-	-
SCUP OR PORGY	-	-	-	-	1,185,800	138,697	-	-
SEA BASS	-	-	-	-	23,200	4,846	-	-
SEA TROUT OR WEAKFISH, GRAY	-	-	-	-	1,100	156	-	-
SHAD	-	-	-	-	1,600	63	-	-
SHARKS:								
GRAYFISH	-	-	-	-	700	23	-	-
UNCLASSIFIED	-	-	-	-	600	27	-	-
SKATES	-	-	-	-	8,100	238	-	-
SMELT	100	36	-	-	-	-	-	-
STRIPED BASS	400	100	-	-	8,100	1,196	-	-
STURGEON, COMMON	-	-	-	-	1,600	100	-	-
TAUTOG	-	-	-	-	27,600	911	-	-
TILEFISH	-	-	-	-	935,100	57,225	-	-
WHITE PERCH	14,700	2,334	-	-	-	-	-	-
WHITING	-	-	-	-	3,703,500	92,916	-	-
UNCLASSIFIED:								
FOR FOOD	-	-	-	-	4,500	355	-	-
BAIT, REDUCTION, AND ANIMAL FOOD	-	-	-	-	1,218,100	11,650	-	-
LOBSTERS, NORTHERN	-	-	-	-	70,900	40,562	714,700	$411,784
SQUID	-	-	-	-	178,400	19,012	-	-
TOTAL	155,400	4,480	20,300	$1,736	24,449,000	1,514,999	714,700	411,784

SPECIES	POUND NETS, FISH		FLOATING TRAPS		POTS AND TRAPS			
					CONCH		CRAB	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANCHOVIES	-	-	73,800	$1,983	-	-	-	-
BLUEFISH	-	-	73,700	10,267	-	-	-	-
BONITO	-	-	19,900	3,430	-	-	-	-
BUTTERFISH	-	-	286,900	52,942	-	-	-	-
COD	-	-	25,400	2,465	-	-	-	-
EELS, CONGER	-	-	300	10	-	-	-	-
FLOUNDERS:								
BLACKBACK	-	-	200	10	-	-	-	-
FLUKE	-	-	63,900	15,135	-	-	-	-
HAKE, RED	-	-	8,000	175	-	-	-	-
HERRING, SEA	-	-	33,700	1,150	-	-	-	-
KING WHITING OR "KINGFISH"	-	-	200	22	-	-	-	-
MACKEREL	-	-	166,000	20,610	-	-	-	-
MULLET, BLACK	-	-	800	76	-	-	-	-
POLLOCK	-	-	2,300	112	-	-	-	-
SCUP OR PORGY	-	-	7,487,100	389,136	-	-	-	-
SEA BASS	-	-	127,400	26,148	-	-	-	-
SEA ROBIN	-	-	88,200	1,370	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY	-	-	300	44	-	-	-	-
SHAD	-	-	1,100	62	-	-	-	-
SHARKS:								
GRAYFISH	-	-	100	5	-	-	-	-
UNCLASSIFIED	-	-	1,200	52	-	-	-	-
SKATES	-	-	5,800	245	-	-	-	-
STRIPED BASS	-	-	20,300	4,218	-	-	-	-
STURGEON, COMMON	-	-	2,700	181	-	-	-	-
TAUTOG	-	-	17,800	561	-	-	-	-
TUNA, BLUEFIN	-	-	6,400	550	-	-	-	-
WHITE PERCH	4,000	$600	-	-	-	-	-	-
WHITING	-	-	201,100	11,085	-	-	-	-

(CONTINUED ON NEXT PAGE)

RHODE ISLAND - CATCH BY GEAR, 1964 - Continued

SPECIES	POUND NETS, FISH		FLOATING TRAPS		POTS AND TRAPS			
					CONCH		CRAB	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
UNCLASSIFIED:								
FOR FOOD	-	-	800	$60	-	-	-	-
BAIT, REDUCTION, AND ANIMAL FOOD	-	-	17,300	173	-	-	-	-
CRABS:								
GREEN	-	-	-	-	-	-	3,600	$450
ROCK	-	-	-	-	-	-	189,000	22,217
LOBSTERS, NORTHERN	-	-	-	-	-	-	11,100	7,539
CONCHS	-	-	-	-	42,500	$9,723	-	-
SQUID	-	-	108,800	23,638	-	-	-	-
TOTAL	4,000	$600	8,841,500	565,915	42,500	9,723	203,700	30,206

SPECIES	POTS AND TRAPS - CONTINUED				GILL NETS, ANCHOR, SET OR STAKE		LINES	
	EEL		LOBSTER				HAND	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	-	-	-	-	1,500	$211	2,200	$295
BONITO	-	-	-	-	4,000	713	-	-
COD	-	-	-	-	-	-	45,800	3,675
EELS:								
COMMON	31,200	$7,775	-	-	-	-	-	-
CONGER	-	-	-	-	-	-	300	19
MACKEREL	-	-	-	-	-	-	400	45
POLLOCK	-	-	-	-	-	-	100	3
SCUP OR PORGY	-	-	-	-	-	-	200	16
SEA BASS	-	-	-	-	-	-	200	60
STRIPED BASS	-	-	-	-	-	-	45,900	6,413
TAUTOG	-	-	-	-	-	-	16,400	1,210
UNCLASSIFIED, FOR FOOD	-	-	-	-	-	-	200	18
CRABS, ROCK	-	-	19,100	$1,897	-	-	-	-
LOBSTERS, NORTHERN	-	-	199,700	138,914	-	-	-	-
CONCHS	-	-	600	122	-	-	-	-
TOTAL	31,200	7,775	219,400	140,933	5,500	924	111,700	11,754

SPECIES	LINES - CONTINUED				HARPOONS, SWORDFISH		SPEARS	
	TROLL		LONG OR SET WITH HOOKS					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	600	$82	-	-	-	-	-	-
COD	-	-	1,000	$67	-	-	-	-
EELS, COMMON	-	-	-	-	-	-	100	$24
STRIPED BASS	100	15	-	-	-	-	-	-
SWORDFISH	-	-	29,900	9,795	35,200	$11,134	-	-
TUNA, BLUEFIN	31,200	788	1,400	75	-	-	-	-
TOTAL	31,900	885	32,300	9,937	35,200	11,134	100	24

SPECIES	DREDGES					
	CLAM		MUSSEL		SCALLOP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, YELLOWTAIL	-	-	-	-	500	$19
CLAMS:						
HARD, PUBLIC	307,100	$114,514	-	-	-	-
OCEAN QUAHOG	112,600	11,263	-	-	-	-
CONCHS	4,000	550	-	-	-	-
MUSSELS, SEA	-	-	300	$52	-	-
SCALLOPS:						
BAY	-	-	-	-	1,800	2,736
SEA	-	-	-	-	6,600	3,485
TOTAL	423,700	126,327	300	52	8,900	6,240

SPECIES	TONGS				RAKES		HOES	
	OYSTER		OTHER					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS:								
HARD, PUBLIC	-	-	1,216,000	$673,376	304,100	$168,343	-	-
SOFT, PUBLIC	-	-	-	-	-	-	63,700	$29,347
CONCHS	-	-	100	15	-	-	-	-
OYSTERS, MARKET, PUBLIC:								
SPRING	4,900	$5,135	-	-	-	-	-	-
FALL	8,000	7,982	-	-	-	-	-	-
TOTAL	12,900	13,117	1,216,100	673,391	304,100	168,343	63,700	29,347

CONNECTICUT

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS		FYKE AND HOOP NETS, FISH	POTS AND TRAPS	
		FISH	LOBSTER		CONCH	EEL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	-	65	18	-	1	-
ON BOATS AND SHORE:						
REGULAR	5	9	-	-	7	1
CASUAL	11	29	-	1	4	24
TOTAL	16	103	18	1	12	25
VESSELS, MOTOR	-	26	5	-	1	-
GROSS TONNAGE	-	771	393	-	11	-
BOATS:						
MOTOR	1	28	-	1	9	21
OTHER	8	-	-	-	-	1
GEAR:						
NUMBER	9	54	5	5	429	445
LENGTH, YARDS	471	-	-	-	-	-
YARDS AT MOUTH	-	937	159	-	-	-

ITEM	POTS AND TRAPS-CONTINUED	GILL NETS			LINES, HAND	DIP NETS, COMMON
		ANCHOR, SET OR STAKE	DRIFT			
	LOBSTER		SHAD	OTHER		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	21	-	10	-	2	-
ON BOATS AND SHORE:						
REGULAR	26	-	9	3	4	11
CASUAL	143	10	100	8	35	33
TOTAL	190	10	119	11	41	44
VESSELS, MOTOR	10	-	3	-	1	-
GROSS TONNAGE	99	-	36	-	11	-
BOATS:						
MOTOR	126	1	42	10	29	44
OTHER	-	7	7	-	-	-
GEAR:						
NUMBER	9,831	8	46	10	41	44
SQUARE YARDS	-	1,467	100,954	2,953	-	-
HOOKS	-	-	-	-	64	-

ITEM	HARPOONS, SWORDFISH	DREDGES		TONGS		HOES	TOTAL, EXCLUSIVE OF DUPLICATION
		CLAM	OYSTER, COMMON	OYSTER	OTHER		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:							
ON VESSELS	2	18	28	-	-	-	142
ON BOATS AND SHORE:							
REGULAR	-	2	-	1	2	1	47
CASUAL	5	-	-	7	11	-	326
TOTAL	7	20	28	8	13	1	515
VESSELS, MOTOR	1	6	9	-	-	-	51
GROSS TONNAGE	11	205	214	-	-	-	1,611
BOATS:							
MOTOR	2	1	-	7	11	-	242
OTHER	-	-	-	-	-	-	23
GEAR:							
NUMBER	3	7	17	8	13	1	-
YARDS AT MOUTH	-	7	23	-	-	-	-

CONNECTICUT - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		OTTER TRAWLS			
			FISH		LOBSTER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	12,700	$133	1,500	$15	-	-
BLUEFISH	-	-	15,300	2,016	-	-
BUTTERFISH	-	-	122,700	11,540	-	-
CARP	2,300	446	-	-	-	-
COD	-	-	135,100	10,694	-	-
EELS, COMMON	700	162	-	-	-	-
FLOUNDERS:						
BLACKBACK	100	10	953,600	51,535	-	-
DAB	-	-	200	11	-	-
FLUKE	-	-	135,200	43,686	-	-
GRAY SOLE	-	-	4,000	274	-	-
LEMON SOLE	-	-	4,000	740	-	-
YELLOWTAIL	-	-	48,900	2,787	-	-
HADDOCK	-	-	6,000	390	-	-
HAKE, RED	-	-	27,000	510	-	-
HERRING, SEA	-	-	25,500	955	-	-
MACKEREL	-	-	3,200	478	-	-
MENHADEN	-	-	100	1	-	-
POLLOCK	-	-	1,100	45	-	-
SCUP OR PORGY	-	-	721,400	82,185	-	-
SEA BASS	-	-	27,300	5,259	-	-
SEA ROBIN	-	-	7,400	93	-	-
SEA TROUT OR WEAKFISH, GRAY	-	-	200	38	-	-
SHAD	-	-	100	8	-	-
SHARKS:						
GRAYFISH	-	-	10,300	113	-	-
UNCLASSIFIED	-	-	200	9	-	-
SKATES	-	-	6,900	109	-	-
SMELT	4,000	1,400	-	-	-	-
STURGEON	-	-	11,000	1,082	-	-
SUCKERS	500	10	-	-	-	-
TAUTOG	100	10	8,900	368	-	-
TILEFISH	-	-	900	74	-	-
WHITING	-	-	395,900	10,324	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	2,500	60	394,200	5,269	-	-
LOBSTERS, NORTHERN	-	-	500	206	280,000	$167,720
CONCHS	-	-	5,100	852	-	-
SQUID	-	-	31,200	3,317	-	-
TOTAL	22,900	2,231	3,104,900	234,983	280,000	167,720

SPECIES	FYKE AND HOOP NETS, FISH		POTS AND TRAPS					
			CONCH		EEL		LOBSTER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CARP	200	$20	-	-	-	-	-	-
CATFISH AND BULLHEADS	800	73	-	-	-	-	-	-
EELS, COMMON	300	90	-	-	16,800	$3,706	-	-
SUCKERS	500	10	-	-	-	-	-	-
LOBSTERS, NORTHERN	-	-	-	-	-	-	290,200	$210,747
CONCHS	-	-	62,000	$10,943	-	-	1,300	224
TOTAL	1,800	193	62,000	10,943	16,800	3,706	291,500	210,971

SPECIES	GILL NETS						LINES, HAND	
	ANCHOR, SET OR STAKE		DRIFT					
			SHAD		OTHER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	-	-	-	-	14,000	$2,221	31,000	$4,853
CARP	-	-	-	-	500	75	-	-
COD	-	-	-	-	-	-	12,000	957
EELS, COMMON	-	-	-	-	-	-	200	40
FLOUNDERS:								
BLACKBACK	-	-	-	-	-	-	2,800	189
FLUKE	-	-	-	-	-	-	200	63
HERRING, SEA	-	-	-	-	200	5	-	-
MACKEREL	-	-	-	-	2,100	378	300	42
MENHADEN	-	-	-	-	3,800	72	-	-
SCUP OR PORGY	-	-	-	-	-	-	500	58
SEA BASS	-	-	-	-	-	-	300	62
SHAD	1,500	$310	276,100	$58,079	-	-	-	-
SKATES	-	-	-	-	-	-	100	1
SMELT	100	40	-	-	-	-	-	-
STRIPED BASS	-	-	-	-	5,800	799	29,600	4,014
TAUTOG	-	-	-	-	-	-	3,300	272

(CONTINUED ON NEXT PAGE)

CONNECTICUT - CATCH BY GEAR, 1964 - Continued

SPECIES	GILL NETS						LINES, HAND	
	ANCHOR, SET OR STAKE		DRIFT					
			SHAD		OTHER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
UNCLASSIFIED:								
FOR FOOD	-	-	-	-	100	$3	300	$34
BAIT, REDUCTION, AND ANIMAL FOOD	-	-	-	-	1,900	30	900	11
TOTAL.	1,600	$350	276,100	$ 58,079	28,400	3,583	81,500	10,596

SPECIES	DIP NETS, COMMON		HARPOONS, SWORDFISH		DREDGES			
					CLAM		OYSTER, COMMON	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	600	$9	-	-	-	-	-	-
SWORDFISH.	-	-	600	$319	-	-	-	-
TUNA, BLUEFIN.	-	-	300	26	-	-	-	-
CRABS, BLUE, HARD.	100	30	-	-	-	-	-	-
CLAMS, HARD:								
PUBLIC	-	-	-	-	3,700	$1,352	-	-
PRIVATE.	-	-	-	-	326,300	136,000	-	-
OYSTERS, MARKET, PRIVATE:								
SPRING	-	-	-	-	-	-	45,700	$83,734
FALL	-	-	-	-	-	-	77,300	150,962
SCALLOPS, BAY.	24,800	35,216	-	-	-	-	-	-
TOTAL.	25,500	35,255	900	345	330,000	137,352	123,000	234,696

SPECIES	TONGS				HOES	
	OYSTER		OTHER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS:						
HARD, PUBLIC	-	-	1,700	$846	-	-
SOFT, PUBLIC	-	-	-	-	300	$200
OYSTERS, MARKET, PUBLIC, FALL.	800	$905	-	-	-	-
TOTAL.	800	905	1,700	846	300	200

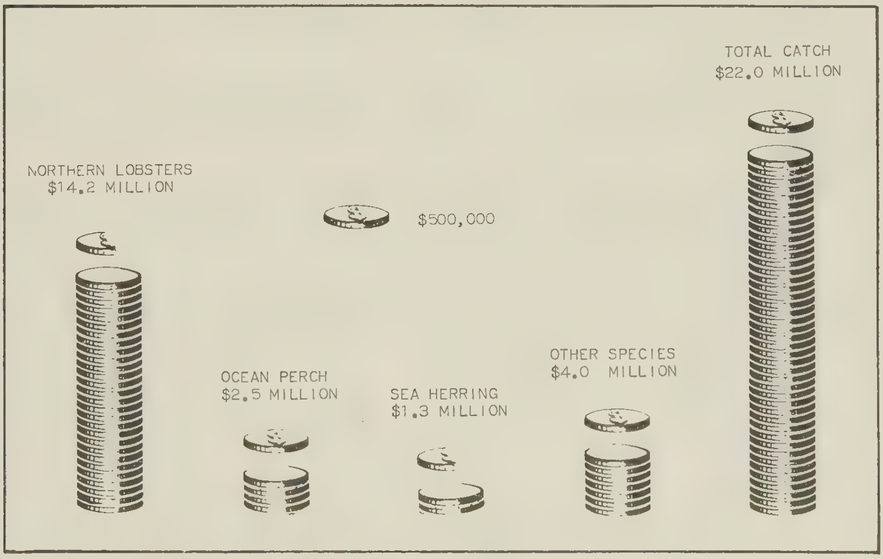
LANDINGS AT MAINE PORTS

In cooperation with the Maine Department of Sea and Shore Fisheries, the Bureau of Commercial Fisheries collects and compiles monthly and annual data on the landings of fish, shellfish, and other aquatic resources in the State of Maine. This information is published monthly in "Maine Landings," which is in the Current Fishery Statistical series. Additional detailed tabulations are prepared for the use of Bureau and State scientists and the International Commission for the Northwest Atlantic Fisheries.

Maine landings data, summarized by species and months, appeared in Digests for the years 1947-58. In 1959, data were shown on the catch off Canada by species and area of capture. Information was also included on the number of fishing craft operated, trips, days absent, and days fished. Since 1960, similar data have been shown for most of the Maine catch, except sea herring, lobsters, sea scallops, and a small amount of other fish. The quantities shown represent the round weight of species except univalve and bivalve mollusks. These shellfish are reported in pounds of meats. The data are comparable with catch figures shown in other tables.

Landings at Maine ports by fishing craft of all sizes during 1964 were 192.6 million pounds, valued at $22.0 million. Compared with 1963 (285.6 million pounds worth $21.2 million), this was a decline in poundage of 33 percent but an increase of 3 percent in value. The major decreases were in sea herring, down 91.5 million pounds and ocean perch, 5.0 million pounds. Whiting (25.3 million pounds--9.4 million more than in 1963) was the only species to show a substantial increase. Lobsters (21.4 million pounds valued at $14.2 million) accounted for 11 percent of the total catch and 65 percent of the total value. Although the lobster catches declined 1.4 million pounds, the demand for this species brought an increase in value of $1.5 million and was responsible for the overall increase in value of Maine landings during 1964.

VALUE OF MAINE CATCH, 1964



LANDINGS AT MAINE PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964

GEAR AND SUBAREA	CRAFT FISHING	TRIPS	DAYS ABSENT	DAYS FISHED	COD, DRAWN			CUSK, DRAWN	FLOUNDERS, ROUND			
					LARGE	MARKET	SCROD		GRAY SOLE	LEMON SOLE	YELLOW-TAIL	BLACK-BACK
	NUMBER	NUMBER	NUMBER	NUMBER	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
LINE TRAWLS:												
EASTERN MAINE	14	201.0	201	100.5	32,987	41,712	-	-	-	-	-	-
CENTRAL MAINE	57	634.0	634	317.0	18,771	117,460	92	17,733	753	-	-	-
WESTERN MAINE	11	48.0	48	27.7	17,315	24,190	160	46,895	-	-	-	-
TOTAL	1/82	883.0	883	445.2	69,073	183,362	252	64,628	753	-	-	-
HANDLINES:												
EASTERN MAINE	6	40.0	40	20.0	3,703	18,859	-	-	-	-	-	-
CENTRAL MAINE	30	206.0	206	103.0	22,866	139,170	-	2,224	-	-	-	-
WESTERN MAINE	9	45.0	45	33.5	1,940	11,703	415	1,069	-	-	-	-
TOTAL	1/45	291.0	291	156.5	28,509	169,732	415	3,293	-	-	-	-
HARPOONS, WESTERN MAINE	1/18	74.0	74	37.0	-	-	-	-	-	-	-	-
LONGLINES:												
SOUTHWEST GRAND BANKS	1	2.0	44	26.0	-	-	-	-	-	-	-	-
CENTRAL AND SOUTHEAST GEORGES	1	3.0	28	17.0	-	-	-	-	-	-	-	-
XXII UNCLASSIFIED	1	1.0	12	6.0	-	-	-	-	-	-	-	-
OFF LONG ISLAND	1	3.0	58	39.0	-	-	-	-	-	-	-	-
TOTAL	1/1	9.0	142	88.0	-	-	-	-	-	-	-	-
OTTER TRAWLS:												
SOUTHEAST GRAND BANKS	8	27.3	460	102.4	-	-	-	-	-	-	-	-
SOUTHWEST GRAND BANKS	14	15.0	237	68.6	-	-	-	-	-	-	-	-
ST. PIERRE BANK	6	1.9	24	7.8	-	170	-	110	20	-	-	-
EAST GULF OF ST. LAWRENCE	16	36.6	485	83.3	-	-	-	-	-	-	-	-
NORTH GULF OF ST. LAWRENCE	16	50.6	647	128.6	350	385	-	25	115	-	-	-
NORTHEAST CAPE BRETON	3	1.9	22	6.1	-	2,670	-	-	5,190	-	-	-
MISAINE BANK	8	9.1	124	37.6	-	2,185	-	75	1,535	-	-	-
BANQUEREAU	16	52.5	812	209.5	1,335	5,325	-	340	7,100	-	-	-
CANSO	4	1.0	14	5.0	-	15	-	-	10	-	-	-
MIDDLE GROUND	4	1.9	22	7.4	725	2,760	-	1,740	1,325	-	-	-
HORSESHOE GROUND	4	3.6	54	16.7	970	4,995	-	3,905	580	-	-	-
SOUTHWEST SABLE ISLAND BANK	1	.8	7	2.1	-	-	-	-	-	-	-	-
EASTERN NOVA SCOTIA	7	7.5	89	20.0	2,205	11,085	-	2,205	2,180	-	-	-
EMERALD BANK	6	3.2	46	9.4	-	2,660	-	445	270	-	-	-
CENTRAL NOVA SCOTIA	4	2.9	42	8.1	-	1,020	-	1,090	610	-	-	-
SOUTHERN NOVA SCOTIA	3	4.5	52	13.3	1,375	2,765	-	845	550	-	-	-
WESTERN BROWNS	16	44.3	389	158.5	15,342	19,407	870	20,196	3,005	-	-	-
WESTERN NOVA SCOTIA	11	13.6	89	34.6	9,776	9,838	-	7,009	3,226	-	-	-
SOUTHERN BAY OF FUNDY	5	9.2	60	22.0	11,260	25,425	-	635	385	-	-	130
NORTHERN BAY OF FUNDY	3	4.8	38	17.0	5,995	9,154	-	1,730	3,145	-	-	-
EASTERN MAINE	11	31.4	186	62.1	8,068	28,688	-	9,691	51,478	-	-	4,625
CENTRAL MAINE	40	1,048.4	1,398	593.7	30,114	190,194	1,278	60,618	226,174	-	-	54,716
WESTERN MAINE	72	2,324.0	2,588	1,283.4	152,977	380,801	6,870	53,819	136,040	1,545	5,410	15,562
EASTERN MASSACHUSETTS	2	9.0	9	.9	300	5,170	-	175	75	-	-	-
INNER GROUNDS	34	181.2	1,014	366.6	89,021	96,418	-	89,254	51,696	-	-	-
WEST SIDE SOUTH CHANNEL	10	8.4	75	24.5	7,349	4,735	-	3,203	1,830	-	-	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS AT MAINE PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	CRAFT FISHING	TRIPS	DAYS ABSENT	DAYS FISHED	COD, DRAWN			CUSK, DRAWN	FLOUNDERS, ROUND			
					LARGE	MARKET	SCROD		GRAY SOLE	LEMON SOLE	YELLOW-TAIL	BLACK-BACK
	NUMBER	NUMBER	NUMBER	NUMBER	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
OTTER TRAWLS - CONTINUED:												
EAST SIDE SOUTH CHANNEL.	1	.4	4	1.5	2,280	640	-	1,475	310	-	-	-
NORTHERN EDGE AND NORTHEAST PEAK .	1	1.0	7	4.0	5,130	3,620	-	-	-	-	-	-
TOTAL	1/116	3,896.0	8,994	3,294.7	344,572	810,125	9,018	258,585	496,849	1,545	5,410	75,033
SINK GILL NETS:												
WESTERN MAINE.	5	457.0	457	457.0	277,573	117,511	-	1,560	-	-	-	-
INNER GROUNDS.	2	28.0	28	28.0	34,165	7,055	-	75	-	-	-	-
TOTAL	1/5	485.0	485	485.0	311,738	124,566	-	1,635	-	-	-	-
SCALLOP DREDGES:												
EASTERN MAINE.	4	126.0	126	63.0	-	-	-	-	-	-	-	-
CENTRAL MAINE.	20	453.0	453	226.4	-	-	-	-	-	-	-	-
WESTERN MAINE.	4	5.0	5	2.5	-	-	-	-	-	-	-	-
EASTERN MASSACHUSETTS.	1	2.0	7	4.0	-	-	-	-	-	-	-	-
INNER GROUNDS.	1	2.0	13	11.0	-	-	-	-	-	-	-	-
WEST SIDE SOUTH CHANNEL.	2	7.0	58	42.0	-	-	-	-	-	-	-	-
EAST SIDE SOUTH CHANNEL.	3	6.1	54	38.8	-	-	-	-	-	-	-	-
NORTHERN EDGE AND NORTHEAST PEAK .	4	36.0	317	221.5	-	-	-	-	-	-	-	-
CENTRAL AND SOUTHEAST GEORGES. . .	1	3.9	42	33.2	-	-	-	-	-	-	-	-
TOTAL	1/33	641.0	1,075	642.4	-	-	-	-	-	-	-	-
TOTAL (LANDED WEIGHT, ALL SPECIES) .	1/300	6,279.0	11,944	5,148.8	753,892	1,287,785	9,685	328,141	497,602	1,545	5,410	75,033
TOTAL (ROUND WEIGHT, ALL SPECIES 2/)	-	-	-	-	882,054	1,506,708	11,331	370,800	497,602	1,545	5,410	75,033
GRAND TOTAL (ROUND WEIGHT 2/) .	-	-	-	-	882,054	1,506,708	11,331	370,800	497,602	1,545	5,410	75,033

GEAR AND SUBAREA	FLOUNDERS, ROUND - CONTINUED	GRAYFISH, ROUND	HADDOCK, DRAWN		HAKE, WHITE, DRESSED	HALIBUT, DRAWN	HERRING, SEA, ROUND	MACKEREL, ROUND	OCEAN PERCH, ROUND	POLLOCK, DRAWN	SWORDFISH, DRESSED	TUNA, BLUEFIN, ROUND
	DAB		LARGE	SCROD								
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
LINE TRAWLS:												
EASTERN MAINE.	-	-	62,731	-	471,999	1,283	-	-	-	5,415	-	-
CENTRAL MAINE.	97	-	66,231	3,496	1,478,429	36,178	-	-	-	28,914	-	-
WESTERN MAINE.	-	17,905	17,820	1,660	31,165	2,087	-	-	-	915	-	460
TOTAL	97	17,905	146,782	5,156	1,981,593	39,548	-	-	-	35,244	-	460
HANDLINES:												
EASTERN MAINE.	-	-	6,074	-	1,254	2,360	-	-	-	24,230	-	-
CENTRAL MAINE.	-	-	4,558	355	6,041	931	-	-	-	40,296	-	-
WESTERN MAINE.	-	-	531	-	5,531	92	-	-	-	4,466	-	460
TOTAL	-	-	11,163	355	12,826	3,383	-	-	-	68,992	-	460

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS AT MAINE PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	FLOUNDERS, ROUND - CONTINUED	GRAYFISH, ROUND	HADDOCK, DRAWN		HAKE, WHITE, DRESSED	HALIBUT, DRAWN	HERRING, SEA, ROUND	MACKEREL, ROUND	OCEAN PERCH, ROUND	POLLOCK, DRAWN	SWORDFISH, DRESSED	TUNA, BLUEFIN, ROUND
	DAB		LARGE	SCROD								
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
HARPOONS, WESTERN MAINE	-	-	-	-	-	-	-	-	-	-	-	40,133
LONGLINES:												
SOUTHWEST GRAND BANKS	-	-	-	-	-	-	-	-	-	-	42,345	1,263
CENTRAL AND SOUTHEAST GEORGES . . .	-	-	-	-	-	-	-	-	-	-	32,139	-
XXII UNCLASSIFIED	-	-	-	-	-	-	-	-	-	-	23,537	4,331
OFF LONG ISLAND	-	-	-	-	-	-	-	-	-	-	94,827	4,699
TOTAL.	-	-	-	-	-	-	-	-	-	-	192,848	10,293
OTTER TRAWLS:												
SOUTHEAST GRAND BANKS	-	-	890	1,240	-	645	-	-	6,152,200	2,744	-	-
SOUTHWEST GRAND BANKS	-	-	-	-	-	240	-	-	3,642,780	-	-	-
ST. PIERRE BANK	-	-	380	110	50	631	-	-	438,750	230	-	-
EAST GULF OF ST. LAWRENCE	-	-	55	70	840	1,870	-	-	7,704,955	500	-	-
NORTH GULF OF ST. LAWRENCE.	125	-	-	-	60	1,205	-	-	10,302,670	350	-	-
NORTHEAST CAPE BRETON	1,135	-	-	-	-	-	-	-	290,875	-	-	-
MISAINE BANK.	20	-	-	-	-	-	-	-	1,366,570	310	-	-
BANQUEREAU.	505	-	6,010	12,270	940	2,296	-	-	10,163,105	5,320	-	-
CANSO	-	-	10	60	-	-	-	-	167,100	-	-	-
MIDDLE GROUND	275	-	3,510	1,930	950	-	-	-	168,110	4,620	-	-
HORSESHOE GROUND.	2,800	-	1,780	5,740	1,120	175	-	-	536,040	96,450	-	-
SOUTHWEST SABLE ISLAND BANK	-	-	-	-	-	-	-	-	150,000	-	-	-
EASTERN NOVA SCOTIA	480	-	2,615	12,595	975	735	-	-	1,085,985	13,445	-	-
EMERALD BANK.	25	-	305	3,300	220	76	-	-	344,400	15,900	-	-
CENTRAL NOVA SCOTIA	80	-	1,280	800	805	-	-	-	379,450	455	-	-
SOUTHERN NOVA SCOTIA.	625	-	9,225	15,630	3,970	350	-	-	378,440	8,810	-	-
WESTERN BROWNS.	5,811	-	67,475	29,091	10,398	1,244	-	-	3,570,356	21,493	-	-
WESTERN NOVA SCOTIA	2,380	-	24,545	9,387	4,076	90	-	-	639,863	16,023	-	-
SOUTHERN BAY OF FUNDY	1,445	-	120,055	68,725	1,830	-	-	-	79,100	5,810	-	-
NORTHERN BAY OF FUNDY	5,768	-	41,282	10,806	3,223	-	-	-	30,800	6,185	-	-
EASTERN MAINE	10,473	-	76,791	21,261	42,151	182	-	-	726,605	13,141	-	-
CENTRAL MAINE	122,957	-	546,987	106,621	267,268	9,982	269,070	-	1,295,734	143,426	-	-
WESTERN MAINE	370,295	8,750	445,863	129,981	124,269	1,857	-	-	1,853,831	234,728	-	-
EASTERN MASSACHUSETTS	865	-	315	75	30	45	-	-	18,000	90	-	-
INNER GROUNDS	41,237	-	366,132	133,410	67,781	1,851	-	-	6,930,167	172,097	-	-
WEST SIDE SOUTH CHANNEL	1,020	-	17,581	7,643	6,708	104	-	-	512,223	13,595	-	-
EAST SIDE SOUTH CHANNEL	500	-	4,075	870	340	-	-	-	8,100	3,125	-	-
NORTHERN EDGE AND NORTHEAST PEAK. .	3,785	-	19,090	19,340	140	-	-	-	-	2,550	-	-
TOTAL.	572,606	8,750	1,756,251	590,955	538,144	23,578	269,070	-	58,936,209	781,397	-	-
SINK GILL NETS:												
WESTERN MAINE	-	160,989	64,263	-	119,700	210	-	-	-	275,240	-	-
INNER GROUNDS	-	-	11,205	-	260	65	-	-	-	455	-	-
TOTAL.	-	160,989	75,468	-	119,960	275	-	-	-	275,695	-	-
TOTAL (LANDED WEIGHT, ALL SPECIES). .	572,703	187,644	1,989,664	596,466	2,652,523	66,784	269,070	-	58,936,209	1,161,328	192,848	51,346
TOTAL (ROUND WEIGHT, ALL SPECIES 2/).	572,703	187,644	2,268,217	679,971	3,554,381	76,800	269,070	-	58,936,209	1,312,295	241,060	51,346
MISCELLANEOUS GEAR, UNCLASSIFIED WATERS OFF MAINE	-	-	-	-	-	-	60,596,980	488,083	-	-	-	-
GRAND TOTAL (ROUND WEIGHT 2/). .	572,703	187,644	2,268,217	679,971	3,554,381	76,800	60,866,050	488,083	58,936,209	1,312,295	241,060	51,346

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS AT MAINE PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	WHITING, ROUND	WOLFFISH, DRAWN	UNCLASSIFIED FISH		SCALLOPS, SEA (MEATS)	SHRIMP, ROUND	LOBSTERS, ROUND	UNCLASSIFIED SHELLFISH	TOTAL
			FOR FOOD	FOR REDUCTION					
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
LINE TRAWLS:									
EASTERN MAINE	-	-	-	-	-	-	-	-	616,127
CENTRAL MAINE	-	144	-	-	-	-	-	-	1,768,298
WESTERN MAINE	-	-	-	50,335	-	-	-	-	210,907
TOTAL	-	144	-	50,335	-	-	-	-	2,595,332
HANDLINES:									
EASTERN MAINE	-	-	37,449	-	-	-	-	-	93,929
CENTRAL MAINE	-	151	26,102	-	-	-	-	-	242,694
WESTERN MAINE	410	66	25,557	-	-	-	-	-	52,240
TOTAL	410	217	89,108	-	-	-	-	-	388,863
HARPOONS, WESTERN MAINE	-	-	-	-	-	-	-	-	40,133
LONGLINES:									
SOUTHWEST GRAND BANKS	-	-	-	-	-	-	-	-	43,608
CENTRAL AND SOUTHEAST GEORGES	-	-	-	-	-	-	-	-	32,139
XXII UNCLASSIFIED	-	-	-	-	-	-	-	-	27,868
OFF LONG ISLAND	-	-	-	-	-	-	-	-	99,526
TOTAL	-	-	-	-	-	-	-	-	203,141
OTTER TRAWLS:									
SOUTHEAST GRAND BANKS	-	-	-	-	-	-	-	-	6,157,719
SOUTHWEST GRAND BANKS	-	-	-	-	-	-	-	-	3,643,020
ST. PIERRE BANK	-	-	-	-	-	-	-	-	440,451
EAST GULF OF ST. LAWRENCE	-	-	-	-	-	-	-	-	7,708,290
NORTH GULF OF ST. LAWRENCE	-	-	165	-	-	-	-	-	10,305,450
NORTHEAST CAPE BRETON	-	-	-	-	-	-	-	-	299,870
MISAINE BANK	-	10	-	-	-	-	-	-	1,370,705
BANQUEREAU	-	160	-	-	-	-	-	-	10,204,706
CANSO	-	-	-	-	-	-	-	-	167,195
MIDDLE GROUND	-	77	-	-	-	-	-	-	186,022
HORSESHOE GROUND	-	1,755	-	-	-	-	-	-	656,310
SOUTHWEST SABLE ISLAND BANK	-	-	-	-	-	-	-	-	150,000
EASTERN NOVA SCOTIA	-	1,108	-	-	-	-	-	-	1,135,613
EMERALD BANK	-	90	-	-	-	-	-	-	367,691
CENTRAL NOVA SCOTIA	-	200	-	-	-	-	-	-	385,790
SOUTHERN NOVA SCOTIA	-	25	-	-	-	-	-	-	422,610
WESTERN BROWNS	-	395	-	-	-	-	-	-	3,765,083
WESTERN NOVA SCOTIA	-	125	-	-	-	-	-	-	726,338
SOUTHERN BAY OF FUNDY	-	375	-	-	-	-	-	-	315,175
NORTHERN BAY OF FUNDY	-	-	-	-	-	-	-	-	118,088
EASTERN MAINE	-	1,773	-	-	-	-	-	-	994,927
CENTRAL MAINE	791,010	6,260	-	181,073	-	295,094	-	-	4,598,576
WESTERN MAINE	24,512,039	4,650	150	1,100,684	-	623,608	6	-	30,163,735
EASTERN MASSACHUSETTS	-	-	-	375	-	4,225	-	-	29,740
INNER GROUNDS	-	3,915	-	26,140	-	1,740	-	-	8,070,859
WEST SIDE SOUTH CHANNEL	-	55	-	-	-	-	-	-	576,046
EAST SIDE SOUTH CHANNEL	-	160	-	-	-	-	-	-	21,875
NORTHERN EDGE AND NORTHEAST PEAK	-	-	-	-	-	-	-	-	53,655
TOTAL	25,303,049	21,133	315	1,308,272	-	924,667	6	-	93,035,539

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

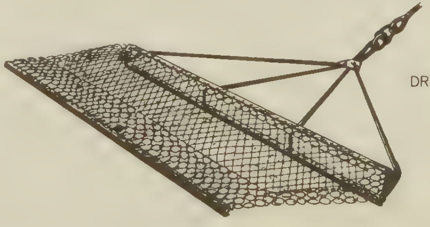
LANDINGS AT MAINE PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	WHITING, ROUND	WOLFFISH, DRAWN	UNCLASSIFIED FISH		SCALLOPS, SEA (MEATS)	SHRIMP, ROUND	LOBSTERS, ROUND	UNCLASSIFIED SHELLFISH	TOTAL
			FOR FOOD	FOR REDUCTION					
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
SINK GILL NETS:									
WESTERN MAINE	-	-	265	303,148	-	-	-	-	1,320,459
INNER GROUNDS	-	-	-	-	-	-	-	-	53,280
TOTAL	-	-	265	303,148	-	-	-	-	1,373,739
SCALLOP DREDGES:									
EASTERN MAINE	-	-	-	-	30,298	-	-	-	30,298
CENTRAL MAINE	-	-	-	-	133,363	-	-	-	133,363
WESTERN MAINE	-	-	-	-	398	-	-	-	398
EASTERN MASSACHUSETTS	-	-	-	-	7,000	-	-	-	7,000
INNER GROUNDS	-	-	-	-	23,276	-	-	-	23,276
WEST SIDE SOUTH CHANNEL	-	-	-	-	101,420	-	-	-	101,420
EAST SIDE SOUTH CHANNEL	-	-	-	-	94,197	-	-	-	94,197
NORTHERN EDGE AND NORTHEAST PEAK	-	-	-	-	459,771	-	-	-	459,771
CENTRAL AND SOUTHEAST GEORGES	-	-	-	-	67,169	-	-	-	67,169
TOTAL	-	-	-	-	916,892	-	-	-	916,892
TOTAL (LANDED WEIGHT, ALL SPECIES)	25,303,459	21,494	89,688	1,661,755	916,892	924,667	6	-	98,553,639
TOTAL (ROUND WEIGHT, ALL SPECIES 2/)	25,303,459	25,792	89,688	1,661,755	916,892	924,667	6	-	100,422,438
MISCELLANEOUS GEAR, UNCLASSIFIED WATERS OFF MAINE	600	-	1,604,613	73,067	-	-	21,413,407	7,975,402	92,152,152
GRAND TOTAL (ROUND WEIGHT 2/)	25,304,059	25,792	1,694,301	1,734,822	916,892	924,667	21,413,413	7,975,402	192,574,590

1/ EXCLUSIVE OF DUPLICATION. 2/ ALL SPECIES ARE LISTED AS ROUND WEIGHT EXCEPT UNIVALVE AND BIVALVE MOLLUSKS WHICH ARE REPORTED AS POUNDS OF MEATS. SEA SCALLOPS ARE LISTED AS WEIGHT OF EDIBLE MEAT. LANDED WEIGHT OF FINFISH WAS CONVERTED TO ROUND WEIGHT BY MULTIPLYING BY THE FOLLOWING FACTORS: COD, DRAWN 1.17; CUSK, DRAWN 1.13; HADDOCK, DRAWN 1.14; WHITE HAKE, DRESSED 1.34; HALIBUT, DRAWN 1.15; POLLOCK, DRAWN 1.13; SWORDFISH, DRESSED 1.25; TUNA, DRESSED 1.25; WHITING, DRESSED 1.66; AND WOLFFISH, DRAWN 1.20.

NOTE:--DAYS ABSENT IS THE MEASURE OF TIME, TO THE NEAREST COMPLETE DAY, THAT A VESSEL IS AWAY FROM PORT DURING A FISHING TRIP. WHEN A CRAFT OPERATES IN TWO OR MORE SUBAREAS DURING A VOYAGE, A FRACTIONAL PART (IN TENTHS) OF THE TRIP IS ALLOTTED TO THE SUBAREA ON THE BASIS OF THE CATCH IN EACH SUBAREA. DAYS FISHED IS THE TIME ACTUAL FISHING OPERATIONS WERE CARRIED ON, EXPRESSED TO THE NEAREST TENTH OF A DAY. TO OBTAIN FISHING TIME IN HOURS, MULTIPLY THE NUMBER OF DAYS FISHED BY 24.



DREDGE

LANDINGS AT MASSACHUSETTS PORTS

Detailed statistics on landings at Boston, Gloucester, New Bedford, and other Massachusetts ports are collected and published monthly and annually in the Current Fishery Statistics series. Additional detailed tabulations are prepared for Bureau and State scientists and the International Commission for the Northwest Atlantic Fisheries. The data usually represent about 98 percent of the total Massachusetts catch. Not included are crabs, pot-caught lobsters, clams, sea mussels, oysters, bay scallop meats, Irish moss, and small amounts of other fish, shellfish, and other marine organisms.

The following tables are a summary of 1964 data on Massachusetts landings by port, gear, and area of capture. Since the quantities shown are the weights as landed, they are not directly comparable with the catch figures in other tables in this Digest.

Landings by fishing craft of all sizes at Boston, Gloucester, New Bedford, and other Massachusetts ports in 1964 were 409.6 million pounds worth $35.2 million. This was a decline of 5 percent in volume and 4 percent in value compared with 1963 landings of 431.7 million pounds worth $36.8 million. For the first time, New Bedford became the leading port in both total landings and value, having 33 percent of the volume, followed by Gloucester with 31 percent; Boston, 26; and other Massachusetts ports, 10 percent. The value was more unevenly distributed, with New Bedford well in front with 48 percent, followed by Boston, 29; Gloucester, 17; and other ports, 6 percent.

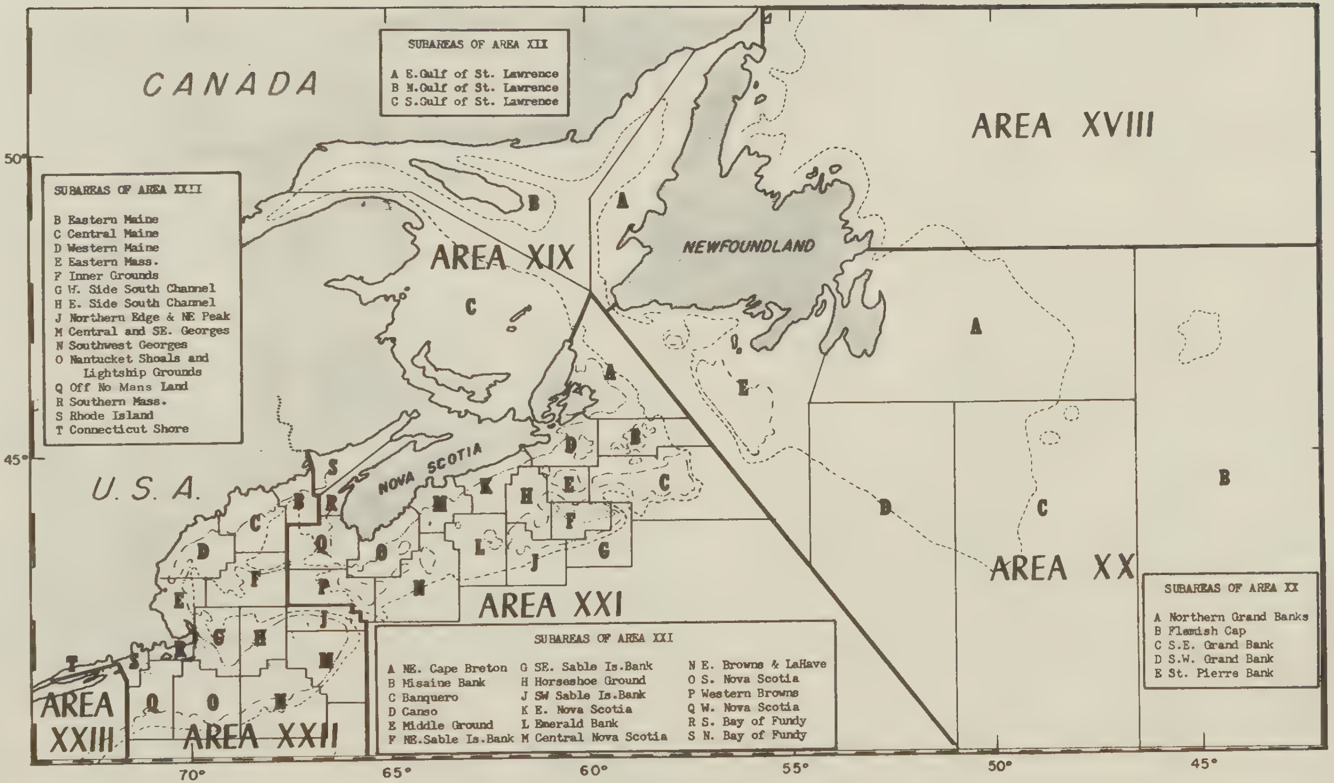
Boston landings of 107.5 million pounds were nearly 400,000 pounds more than in 1963, whereas the value of $10.3 million was 5 percent less. Haddock was 76.3 million pounds, or 71 percent of the Boston landings. Although the composition of the haddock catch was nearly equally divided between large and scrod fish, as in 1963, and the landings were only 1.5 percent higher, the average price dropped to 10.45 cents per pound from 11.05 cents in 1963.

Gloucester landings continued to drop, and that port lost the lead position it had held since 1948. The 124.2 million pounds landed were 11 percent below 1963; the value of $6.1 million was down 8 percent. Ocean perch--down 33 percent to 29.1 million pounds--was the major cause of the decline. Whiting was off 10 percent to 44.3 million pounds, and fish for reduction was down 46 percent. A bright note was the increase in haddock landings to 22.9 million pounds--up 33 percent from 1963. This increase reflected the growing diversion of Gloucester draggers from ocean perch fishing to haddock fishing.

New Bedford set another record with 135.7 million pounds--nearly 600,000 pounds more than in 1963; however, the value of $16.7 million was down slightly. Yellowtail flounders dominated with 65.8 million pounds--up 3 percent and a new record. Sea scallops declined sharply to 12.9 million pounds--19 percent under 1963--but the value of $7.0 million was only 5 percent under that for the previous year and was 42 percent of the value of the total New Bedford catch.

A total of 650 craft landed 409.6 million pounds of fish and shellfish at principal Massachusetts ports in 1964. Of these, 406 using otter trawls landed 375.1 million pounds (92 percent). Sixty-four scallop draggers landed 13.8 million pounds (3 percent) and 11 purse seiners, 8.2 million pounds (2 percent). The remainder was taken by line trawls, handlines, harpoons, longlines, floating traps, sink and drift gill nets, and pound nets. Fishing grounds off the New England States yielded 358.8 million pounds--88 percent of the landings. Grounds off Nova Scotia accounted for 9 percent and those in the Gulf of St. Lawrence, 2 percent. The remainder was taken on the Grand Bank of Newfoundland and off the Middle Atlantic States.

STATISTICAL AREAS AND SUBAREAS USED IN REPORTING THE CATCH LANDED AT CERTAIN MASSACHUSETTS PORTS DURING 1964


CANADA
U. S. A.
NEWFOUNDLAND
NOVA SCOTIA
AREA XVIII
AREA XIX
AREA XX
AREA XXI
AREA XXII
AREA XXIII
SUBAREAS OF AREA XIX
A E.Gulf of St. Lawrence
B N.Gulf of St. Lawrence
C S.Gulf of St. Lawrence
SUBAREAS OF AREA XXII
B Eastern Maine
C Central Maine
D Western Maine
E Eastern Mass.
F Inner Grounds
G W. Side South Channel
H E. Side South Channel
J Northern Edge & NE Peak
M Central and SE. Georges
N Southwest Georges
O Nantucket Shoals and Lightship Grounds
Q Off No Mans Land
R Southern Mass.
S Rhode Island
T Connecticut Shore
SUBAREAS OF AREA XXI
A NE. Cape Breton
B Misaine Bank
C Banquero
D Canso
E Middle Ground
F NE.Sable Is.Bank
G SE. Sable Is.Bank
H Horseshoe Ground
J SW Sable Is.Bank
K E. Nova Scotia
L Emerald Bank
M Central Nova Scotia
N E. Browns & LaHave
O S. Nova Scotia
P Western Browns
Q W. Nova Scotia
R S. Bay of Fundy
S N. Bay of Fundy
SUBAREAS OF AREA XX
A Northern Grand Banks
B Flemish Cap
C S.E. Grand Bank
D S.W. Grand Bank
E St. Pierre Bank
50°
45°
70°
65°
60°
55°
50°
45°

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF LANDINGS, 1964

SPECIES	BOSTON		GLOUCESTER	
	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES, ROUND	-	-	3,998,630	$39,985
ANGLERFISH, ROUND	100	$5	3,010	93
BUTTERFISH, ROUND	390	69	8,795	725
COD, DRAWN:				
WHALE	800	144	2,062	141
LARGE	6,350,805	484,247	1,649,551	116,595
MARKET	6,601,540	566,728	2,156,296	168,417
SCROD	1,907,514	156,179	468,171	24,922
CUSK, DRAWN	992,535	64,670	648,614	32,256
EELS, COMMON	200	5	-	-
FLOUNDERS, ROUND:				
BLACKBACK:				
LARGE	1,252,217	123,392	66,950	4,250
SMALL	31,170	2,109	39,075	2,116
DAB	1,549,537	95,815	1,890,134	87,647
FLUKE:				
LARGE	575	56	1,030	106
MEDIUM	-	-	305	29
SMALL	400	12	115	7
GRAY SOLE	462,165	57,315	1,089,321	107,179
LEMON SOLE	382,003	51,296	35,590	3,327
YELLOWTAIL	2,040,233	101,300	180,920	9,869
HADDOCK, DRAWN:				
LARGE	38,228,689	4,276,836	14,350,378	1,461,549
SCROD	37,850,963	3,671,633	8,579,810	734,855
SNAPPER	182,860	17,426	5,410	255
HAKE:				
RED, ROUND	-	-	57,730	1,975
WHITE, DRESSED:				
LARGE	26,865	1,797	1,068,170	70,823
MEDIUM	995,325	85,764	233,475	12,423
HALIBUT, DRAWN	61,605	20,477	77,650	24,303
HERRING, SEA, ROUND	-	-	67,290	716
MACKEREL, ROUND	75	15	603,617	33,002
OCEAN PERCH, ROUND	1,121,335	47,081	29,104,807	1,231,982
POLLOCK, DRAWN	6,704,377	417,781	3,520,214	179,898
SALMON, ATLANTIC	-	-	8	7
SHAD, ROUND	-	-	5,710	312
SHARKS, DRAWN, UNCLASSIFIED	1,735	185	2,153	83
SKATES, ROUND	4,945	239	33,320	1,298
STRIPED BASS, ROUND	-	-	2,067	351
STURGEON, DRAWN	810	61	285	32
TILEFISH, DRAWN	-	-	2,000	200
TUNA, ROUND, BLUEFIN	-	-	6,130	395
WHITING:				
ROUND	2,100	45	44,261,350	960,836
DRESSED	145,155	8,096	9,080	428
WOLFFISH, DRAWN	514,095	29,646	94,370	4,620
UNCLASSIFIED:				
FOR FOOD	3,325	253	6,557,495	403,875
SPAWN	119,185	10,284	5,345	490
FOR INDUSTRIAL USE	-	-	2,667,980	27,506
LOBSTERS, NORTHERN	-	-	13,000	7,300
SHRIMP	-	-	6,925	916
SEA SCALLOP MEATS	-	-	609,283	330,228
SQUID	165	9	18,180	605
TOTAL	107,535,793	10,290,970	124,201,801	6,088,927

SPECIES	NEW BEDFORD		OTHER MASSACHUSETTS PORTS	
	POUNDS	VALUE	POUNDS	VALUE
ANGLERFISH, ROUND	-	-	26,740	$785
BILLFISH, ROUND	-	-	250	12
BLUEFISH, ROUND	-	-	12,513	1,984
BONITO, ROUND	-	-	13,835	2,198
BUTTERFISH, ROUND	5,905	$656	54,051	9,085
COD, DRAWN:				
WHALE	2,325	222	1,325	80
LARGE	2,008,208	152,072	2,259,761	183,553
MARKET	3,875,545	346,503	1,775,369	138,334
SCROD	115,095	8,849	330,015	16,582
CUSK, DRAWN	4,050	150	38,796	1,031
EELS:				
COMMON	-	-	1,400	140
CONGER	-	-	490	24

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF LANDINGS, 1964 - Continued

SPECIES	NEW BEDFORD		OTHER MASSACHUSETTS PORTS	
	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, ROUND:				
BLACKBACK:				
LARGE	5,384,542	$638,705	2,553,587	$243,415
SMALL	3,654,723	244,135	826,975	59,463
DAB	1,831,270	179,423	259,777	13,931
FLUKE:				
LARGE	687,580	258,262	8,225	2,654
MEDIUM	111,550	27,553	3,058	724
SMALL	542,680	151,654	2,710	534
GRAY SOLE	685,455	83,086	669,442	69,767
LEMON SOLE	1,590,645	357,066	75,591	15,220
YELLOWTAIL	65,756,390	4,531,248	2,955,796	233,594
HADDOCK, DRAWN:				
LARGE	6,730,620	658,627	2,333,564	235,340
SCROD	5,396,345	459,681	601,550	40,173
SNAPPER	925	31	-	-
HAKE:				
RED, ROUND	-	-	2,818,140	30,815
WHITE, DRESSED:				
LARGE	1,850	50	1,950	155
MEDIUM	4,800	319	93,668	5,346
HALIBUT, DRAWN	11,250	3,084	46,194	23,834
HERRING, SEA, ROUND	160,280	3,409	1,735,399	32,829
MACKEREL, ROUND	472,400	24,159	1,649,343	115,048
MENHADEN, ROUND	-	-	2,050	35
OCEAN PERCH, ROUND	-	-	105,527	1,457
OCEAN POUT, ROUND	-	-	2,453,115	32,625
POLLOCK, DRAWN	80,130	3,447	253,086	11,372
SCUP OR PORGY, ROUND:				
MEDIUM	390,510	28,359	2,035	247
UNCLASSIFIED	-	-	94,759	8,231
SEA BASS, ROUND:				
MEDIUM	5,305	508	420	144
UNCLASSIFIED	-	-	4,714	1,035
SHAD, ROUND	-	-	33,026	2,494
SHARKS, DRAWN, UNCLASSIFIED	4,064	156	1,165	56
SKATES, ROUND	-	-	23,995	833
STRIPED BASS, ROUND	-	-	80,407	12,392
STURGEON, DRAWN	805	78	1,508	251
SWORDFISH, DRESSED	870,522	308,396	-	-
TAUTOG, ROUND	60	2	10,042	217
TILEFISH, DRAWN	166,915	16,440	38,235	2,667
TUNA, ROUND:				
BLUEFIN	1,338,074	104,292	714,019	38,795
SKIPJACK	865,840	71,298	288,200	12,971
WHITING:				
ROUND	-	-	12,039,975	254,389
DRESSED	-	-	903,455	39,032
WOLFFISH, DRAWN	2,270	78	56,203	2,293
UNCLASSIFIED:				
FOR FOOD	-	-	117,060	9,143
SPAWN	-	-	8,291	909
FOR INDUSTRIAL USE	18,351,568	171,719	3,394,115	49,616
LOBSTERS, NORTHERN	1,681,511	891,445	-	-
SEA SCALLOP MEATS	12,929,512	7,022,775	180,390	94,122
SQUID	1,045	77	214,750	10,554
TOTAL	135,722,564	16,748,014	42,170,056	2,062,530

SPECIES	TOTAL			
	1964		1963	
	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES, ROUND	3,998,630	$39,985	10,896,830	$102,836
ANCHOVIES, ROUND	-	-	55,125	819
ANGLERFISH, ROUND	29,850	883	30,745	1,406
BILLFISH, ROUND	250	12	5,290	265
BLUEFISH, ROUND	12,513	1,984	11,422	1,684
BONITO, ROUND	13,835	2,198	47,739	4,383
BUTTERFISH, ROUND	69,141	10,535	762,905	89,479
COD, DRAWN:				
WHALE	6,512	587	15,739	1,542
LARGE	12,268,325	936,467	11,823,377	965,462
MARKET	14,408,750	1,219,982	15,966,396	1,364,277
SCROD	2,820,795	206,532	3,669,328	283,500
CUSK, DRAWN	1,683,995	98,107	1,263,762	86,627

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

NEW ENGLAND FISHERIES
LANDINGS AT MASSACHUSETTS PORTS
SUMMARY OF LANDINGS, 1964 - Continued

SPECIES	TOTAL			
	1964		1963	
	POUNDS	VALUE	POUNDS	VALUE
EELS:				
COMMON	1,600	$145	-	-
CONGER	490	24	2,635	$62
FLOUNDERS, ROUND:				
BLACKBACK:				
LARGE	9,257,296	1,009,762	7,255,526	1,007,617
SMALL	4,551,943	307,823	4,466,300	324,338
DAB	5,530,718	376,816	4,601,682	352,612
FLUKE:				
LARGE	697,410	261,078	711,475	289,012
MEDIUM	114,913	28,306	520,413	162,539
SMALL	545,905	152,207	1,049,529	259,102
GRAY SOLE	2,906,383	317,347	2,364,250	288,285
LEMON SOLE	2,083,829	426,909	1,957,718	487,971
YELLOWTAIL	70,933,339	4,876,011	68,873,761	4,575,587
HADDOCK, DRAWN:				
LARGE	61,643,251	6,632,352	55,730,392	6,261,963
SCROD	52,428,668	4,906,342	50,030,643	5,164,656
SNAPPER	189,195	17,712	313,785	16,164
HAKE:				
RED, ROUND	2,875,870	32,790	5,067,852	54,822
WHITE, DRESSED:				
LARGE	1,098,835	72,825	606,925	44,812
MEDIUM	1,327,268	103,852	1,278,265	80,686
HALIBUT, DRAWN	196,699	71,698	154,402	57,166
HERRING, SEA, ROUND	1,962,969	36,954	1,850,225	34,785
MACKEREL, ROUND	2,725,435	172,224	1,920,230	184,170
MENHADEN, ROUND	2,050	35	344,620	3,503
OCEAN PERCH, ROUND	30,331,669	1,280,520	44,386,697	2,210,985
OCEAN POUT, ROUND	2,453,115	32,625	-	-
POLLOCK:				
ROUND	-	-	306,701	11,071
DRAWN	10,557,807	612,498	10,420,294	584,925
SALMON, ATLANTIC	8	7	-	-
SCUP OR PORGY, ROUND:				
LARGE	-	-	9,395	825
MEDIUM	392,545	28,606	617,575	34,565
SMALL	-	-	100	4
UNCLASSIFIED	94,759	8,231	114,512	8,825
SEA BASS, ROUND:				
LARGE	-	-	95	9
MEDIUM	5,725	652	8,009	644
SMALL	-	-	200	10
UNCLASSIFIED	4,714	1,035	8,125	1,182
SHAD, ROUND	38,736	2,806	20,931	1,220
SHARKS, DRAWN, UNCLASSIFIED	9,117	480	20,858	948
SKATES, ROUND	62,260	2,370	51,095	1,981
STRIPED BASS, ROUND	82,474	12,743	83,149	12,375
STURGEON, DRAWN	3,408	422	4,585	496
SWORDFISH, DRESSED	870,522	308,396	1,294,746	399,895
TAUTOG, ROUND	10,102	219	8,109	271
TILEFISH, DRAWN	207,150	19,307	85,080	12,932
TUNA, ROUND:				
BLUEFIN	2,058,223	143,482	4,924,034	267,750
SKIPJACK	1,154,040	84,269	1,587,585	78,690
UNCLASSIFIED	-	-	8,086	1,330
WHITING:				
ROUND	56,303,425	1,215,270	61,249,309	1,427,206
DRESSED	1,057,690	47,556	3,322,129	135,686
WOLFFISH, DRAWN	666,938	36,637	598,024	37,413
UNCLASSIFIED:				
FOR FOOD	6,677,880	413,271	4,773,389	301,115
SPAWN	132,821	11,683	301,790	24,770
FOR INDUSTRIAL USE	24,413,663	248,841	24,036,452	242,634
LOBSTERS, NORTHERN	1,694,511	898,745	1,405,174	657,663
SHRIMP	6,925	916	23,068	2,952
SEA SCALLOP MEATS	13,719,185	7,447,125	16,607,715	7,708,620
SQUID	234,140	11,245	1,755,990	94,549
TOTAL	409,630,214	35,190,441	431,682,287	36,815,673

NOTE:--THIS REPORT INCLUDES ALL LANDINGS IN MASSACHUSETTS EXCEPT THE INSHORE CATCH OF SHELLFISH, ETC., (PRINCIPALLY LOBSTERS, CLAMS, IRISH MOSS, SEA MUSSELS, AND BAY SCALLOPS) AND LESSER QUANTITIES OF FINFISH (ALEWIVES, STRIPED BASS, MACKEREL, ETC.). IN 1963, THE LANDINGS SHOWN ABOVE ACCOUNTED FOR 97.7 PERCENT OF THE MASSACHUSETTS TOTAL CATCH. THE WEIGHTS OF FISH REPRESENT THE FRESH FISH AS LANDED AND THE VALUES ARE THOSE RECEIVED BY THE FISHERMEN. THE GRADES OR SIZES GIVEN FOR CERTAIN SPECIES ARE THOSE RECOGNIZED IN THE TRADE. "WHALE" COD ARE CLASSIFIED AS THOSE WEIGHING OVER 25 POUNDS; "LARGE" COD, 10 TO 25 POUNDS; "MARKET" COD, 2-1/2 TO 10 POUNDS; AND "SCROD" COD, 1-1/2 TO 2-1/2 POUNDS. "LARGE" BLACKBACK FLOUNDERS, 1 TO 3-1/2 POUNDS; AND "SMALL" BLACKBACK FLOUNDERS, 3/4 TO 1 POUND. "LARGE" FLUKE, OVER 4 POUNDS; "MEDIUM" FLUKE, 3 TO 4 POUNDS; AND "SMALL" FLUKE, 1-1/2 TO 3 POUNDS. "LARGE" HADDOCK ARE THOSE WEIGHING OVER 2-1/2 POUNDS; SCROD HADDOCK, 1-1/2 TO 2-1/2 POUNDS; AND "SNAPPER" HADDOCK, UNDER 1-1/2 POUNDS. "LARGE" HAKE ARE THOSE WEIGHING OVER 6 POUNDS, AND "MEDIUM" HAKE, UNDER 6 POUNDS. THE FOLLOWING TERMS INDICATE THE CONDITION IN WHICH LANDED: "ROUND," AS CAUGHT, "DRAWN," EVISCERATED; AND "DRESSED," EVISCERATED AND HEADED. THE CATEGORY "OTHER MASSACHUSETTS PORTS" INCLUDES PLYMOUTH, PROVINCETOWN, AND OTHER CAPE COD PORTS.

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964

GEAR AND SUBAREA	CRAFT FISHING	TRIPS	DAYS ABSENT	DAYS FISHED	COD, DRAWN			CUSK, DRAWN	FLOUNDERS, ROUND
					LARGE	MARKET	SCROD		BLACK-BACK
	NUMBER	NUMBER	NUMBER	NUMBER	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
LINE TRAWLS:									
EASTERN MASSACHUSETTS	38	909.0	916	350.4	13,699	123,475	36,355	190,950	36,695
INNER GROUNDS	5	139.0	178	118.8	55,775	65,170	16,730	202,625	-
WEST SIDE SOUTH CHANNEL	30	1,364.0	1,464	766.1	613,573	193,843	7,130	34,451	12,020
SOUTHERN MASSACHUSETTS.	1	3.0	3	.9	-	1,140	-	-	-
TOTAL	1/ 64	2,415.0	2,561	1,236.2	683,047	383,628	60,215	428,026	48,715
HANDLINES:									
EASTERN MASSACHUSETTS	81	2,002.0	2,002	886.2	2,936	4,495	100	200	2,428
WEST SIDE SOUTH CHANNEL	40	1,520.0	1,520	760.0	1,107,656	286,900	-	4,765	2,642
TOTAL	1/ 120	3,522.0	3,522	1,646.2	1,110,592	291,395	100	4,965	5,070
HARPOONS:									
EASTERN MASSACHUSETTS	4	5.0	6	1.2	-	-	-	-	-
NANTUCKET SHOALS & LIGHTSHIP. . .	1	1.0	6	3.5	-	-	-	-	-
OFF NO MANS LAND.	5	14.0	89	50.0	-	-	-	-	-
TOTAL	1/ 9	20.0	101	54.7	-	-	-	-	-
LONGLINES:									
CENTRAL & SOUTHEAST GEORGES . . .	4	10.0	93	61.5	-	-	-	-	-
NANTUCKET SHOALS & LIGHTSHIP. . .	11	42.0	335	240.0	-	-	-	-	-
OFF NO MANS LAND.	2	4.0	37	27.5	-	-	-	-	-
OFF LONG ISLAND	8	23.0	194	129.0	-	-	-	-	-
TOTAL	1/ 12	79.0	659	458.0	-	-	-	-	-
OTTER TRAWLS:									
SOUTHWEST GRAND BANKS	1	.2	3	4.5	-	-	-	-	-
ST. PIERRE BANK	1	.4	8	2.0	-	-	-	-	-
EAST GULF OF ST. LAWRENCE	11	21.1	301	69.1	50	925	-	12	-
NORTH GULF OF ST. LAWRENCE. . . .	11	24.7	337	87.7	50	25	-	13	-
SOUTH GULF OF ST. LAWRENCE. . . .	5	2.3	29	6.2	-	-	-	-	-
NORTHEAST CAPE BRETON	12	10.4	142	53.1	-	100	-	-	-
MISAINE BANK.	6	5.5	78	30.0	1,207	325	187	175	-
BANQUEREAU.	12	9.6	147	46.0	-	10,125	-	90	-
CANSO	6	4.4	68	19.3	-	1,100	-	438	-
MIDDLE GROUND	7	2.2	43	10.0	220	2,750	-	425	-
SOUTHEAST SABLE ISLAND BANK . . .	1	.1	1	.7	-	-	-	-	-
HORSESHOE GROUND.	11	10.2	136	38.2	1,090	7,216	600	1,723	-
EASTERN NOVA SCOTIA	17	16.6	220	60.1	785	6,540	-	2,952	-
CENTRAL NOVA SCOTIA	20	23.4	292	68.6	2,043	11,520	400	1,645	-
EASTERN BROWNS & LA HAVE.	44	32.0	271	147.6	67,076	104,557	21,905	38,513	75
SOUTHERN NOVA SCOTIA.	37	35.7	332	148.2	38,393	58,375	10,190	8,483	1,200
WESTERN BROWNS.	63	142.1	1,293	821.2	689,246	791,836	88,707	139,448	15,996
WESTERN NOVA SCOTIA	26	33.1	291	169.4	80,148	118,355	42,695	55,957	25,885
SOUTHERN BAY OF FUNDY	19	11.8	104	58.9	29,244	32,629	18,710	6,201	795
NORTHERN BAY OF FUNDY	31	52.9	474	330.1	128,677	152,438	66,741	34,055	5,925
EASTERN MAINE	19	13.7	118	70.8	38,425	46,008	17,552	10,171	37

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	CRAFT FISHING	TRIPS	DAYS ABSENT	DAYS FISHED	COD, DRAWN			CUSK, DRAWN	FLOUNDERS, ROUND
					LARGE	MARKET	SCROD		BLACK-BACK
	NUMBER	NUMBER	NUMBER	NUMBER	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
OTTER TRAWLS - CONTINUED:									
CENTRAL MAINE	2	.8	2	1.0	-	-	-	-	-
WESTERN MAINE	46	340.3	602	276.6	71,919	143,494	47,641	42,314	3,260
EASTERN MASSACHUSETTS	175	8,975.3	9,784	4,086.4	647,861	1,670,074	578,662	108,783	2,171,300
INNER GROUNDS	65	106.2	590	347.3	126,425	120,032	32,043	71,475	893
WEST SIDE SOUTH CHANNEL	202	1,693.0	6,482	4,036.9	1,746,999	3,210,710	819,336	211,998	4,340,997
EAST SIDE SOUTH CHANNEL	174	712.2	4,724	3,191.5	1,671,221	1,375,377	191,820	253,392	403,613
NORTHERN EDGE & NORTHEAST PEAK	107	380.5	3,272	2,369.2	2,728,155	2,492,102	623,818	211,503	226,952
CENTRAL & SOUTHEAST GEORGES	132	862.1	6,056	3,821.5	1,775,064	1,332,302	111,463	45,241	752,240
SOUTHWEST GEORGES	89	221.6	1,621	1,060.9	208,068	298,230	27,890	2,852	154,554
NANTUCKET SHOALS & LIGHTSHIP	163	1,281.4	6,795	4,027.2	277,628	1,423,400	56,525	1,480	4,596,435
OFF NO MANS LAND	143	935.4	2,649	1,421.2	17,468	78,490	3,035	125	262,050
SOUTHERN MASSACHUSETTS	54	250.0	566	302.4	2,262	34,205	-	-	693,462
RHODE ISLAND SHORE	18	32.9	162	70.5	100	1,360	-	-	17,375
OFF LONG ISLAND	41	80.9	536	303.5	4,670	3,220	-	-	1,770
TOTAL	1/ 406	16,325.0	48,529	27,557.8	10,354,494	13,527,820	2,759,920	1,249,464	13,674,814
FLOATING TRAPS, EASTERN MASSACHUSETTS	6	284.0	284	284.0	-	-	-	-	-
SINK GILL NETS, EASTERN MASSACHUSETTS	7	432.0	432	432.0	126,474	204,060	415	1,540	22,650
DRIFT GILL NETS:									
EASTERN MASSACHUSETTS	14	147.0	147	118.8	-	-	-	-	-
WEST SIDE SOUTH CHANNEL	1	58.0	58	29.0	-	-	-	-	-
TOTAL	1/ 14	205.0	205	147.8	-	-	-	-	-
PURSE SEINES:									
EASTERN MASSACHUSETTS	7	84.0	84	26.7	-	-	-	-	-
WEST SIDE SOUTH CHANNEL	1	3.0	7	3.1	-	-	-	-	-
OFF NO MANS LAND	2	4.0	18	1.6	-	-	-	-	-
OFF LONG ISLAND	5	13.0	51	15.2	-	-	-	-	-
TOTAL	1/ 11	104.0	160	46.6	-	-	-	-	-
SCALLOP DREDGES:									
WESTERN BROWNS	2	3.0	30	21.5	-	-	-	-	750
WESTERN MAINE	1	.5	4	4.0	-	-	-	-	130
EASTERN MASSACHUSETTS	12	195.0	223	83.4	130	210	145	-	19,780
INNER GROUNDS	1	.5	4	3.0	-	-	-	-	130
WEST SIDE SOUTH CHANNEL	28	103.1	723	563.4	-	-	-	-	4,963
EAST SIDE SOUTH CHANNEL	41	176.3	1,405	1,111.8	-	175	-	-	12,735
NORTHERN EDGE & NORTHEAST PEAK	22	84.0	767	548.7	100	100	-	-	425
CENTRAL & SOUTHEAST GEORGES	41	172.0	1,510	1,120.5	-	-	-	-	902
SOUTHWEST GEORGES	43	348.3	2,887	2,247.1	-	-	-	-	325
NANTUCKET SHOALS & LIGHTSHIP	39	174.8	1,309	1,009.9	-	-	-	-	17,715
RHODE ISLAND SHORE	1	2.0	4	1.8	-	-	-	-	-
OFF LONG ISLAND	15	31.5	233	189.5	-	-	-	-	-
TOTAL	1/ 64	1,291.0	9,099	6,904.6	230	485	145	-	57,855

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	CRAFT FISHING	TRIPS	DAYS ABSENT	DAYS FISHED	COD, DRAWN			CUSK, DRAWN	FLOUNDERS, ROUND
					LARGE	MARKET	SCROD		BLACK-BACK
	NUMBER	NUMBER	NUMBER	NUMBER	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
POUND NETS:									
EASTERN MASSACHUSETTS.	6	464.0	464	464.0	-	100	-	-	-
WEST SIDE SOUTH CHANNEL.	16	208.0	208	208.0	-	1,262	-	-	135
SOUTHERN MASSACHUSETTS	2	67.0	67	67.0	-	-	-	-	-
TOTAL.	24	739.0	739	739.0	-	1,362	-	-	135
GRAND TOTAL.	1/ 690	25,416.0	66,291	39,506.9	12,274,837	14,408,750	2,820,795	1,683,995	13,809,239

GEAR AND SUBAREA	FLOUNDERS, ROUND - CONTINUED					HADDOCK, DRAWN			HAKE	
	DAB	FLUKE	GRAY SOLE	LEMON SOLE	YELLOW-TAIL	LARGE	SCROD	SNAPPER	RED, ROUND	WHITE, DRESSED LARGE
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
LINE TRAWLS:										
EASTERN MASSACHUSETTS.	-	-	-	-	-	195,235	32,415	-	-	500
INNER GROUNDS.	-	-	-	-	-	554,880	94,225	-	-	350
WEST SIDE SOUTH CHANNEL.	62	-	137	2,251	12,851	1,385,706	48,255	-	310	475
TOTAL.	62	-	137	2,251	12,851	2,135,821	174,895	-	310	1,325
HANDLINES:										
EASTERN MASSACHUSETTS.	-	-	-	-	1,820	-	-	-	-	-
WEST SIDE SOUTH CHANNEL.	-	5	-	190	131	236,223	-	-	45	-
TOTAL.	-	5	-	190	1,951	236,223	-	-	45	-
OTTER TRAWLS:										
EAST GULF OF ST. LAWRENCE.	22	-	165	-	-	65	58	-	-	-
NORTH GULF OF ST. LAWRENCE	23	-	-	-	-	65	57	-	-	-
NORTHEAST CAPE BRETON.	-	-	-	-	-	300	250	-	-	-
MISAINE BANK	987	-	187	-	-	2,205	1,118	-	-	675
BANQUEREAU	22,050	-	207,000	-	-	-	140	-	-	-
CANSO.	2,750	-	22,000	-	-	2,375	3,375	-	-	125
MIDDLE GROUND.	813	-	3,375	-	-	500	10,400	-	-	125
HORSESHOE GROUND	848	-	8,078	-	-	4,587	7,828	-	-	788
EASTERN NOVA SCOTIA.	3,487	-	1,038	-	-	3,038	13,274	-	-	2,575
CENTRAL NOVA SCOTIA.	1,328	-	2,022	-	-	18,687	15,761	-	-	1,012
EASTERN BROWNS & LA HAVE	17,524	-	2,982	143	671	689,305	1,087,473	-	-	1,420
SOUTHERN NOVA SCOTIA	7,227	-	8,210	116	2,415	370,555	508,407	-	-	1,450
WESTERN BROWNS	108,363	-	14,474	5,490	66,389	4,623,942	6,013,033	52,500	-	11,197
WESTERN NOVA SCOTIA.	48,422	-	25,400	75	4,525	331,810	318,009	-	-	14,365
SOUTHERN BAY OF FUNDY.	21,632	-	11,246	225	300	176,758	108,842	-	-	11,836
NORTHERN BAY OF FUNDY.	161,608	-	77,175	4,200	1,750	934,239	750,260	25,900	-	24,200
EASTERN MAINE.	23,770	-	17,352	-	900	170,532	135,275	-	-	21,540

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	FLOUNDERS, ROUND - CONTINUED					HADDOCK, DRAWN			HAKE	
	DAB	FLUKE	GRAY SOLE	LEMON SOLE	YELLOW-TAIL	LARGE	SCROD	SNAPPER	RED, ROUND	WHITE, DRESSED LARGE
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
OTTER TRAWLS - CONTINUED:										
WESTERN MAINE.	88,005	-	168,720	40	3,372	323,682	247,988	-	7,180	171,773
EASTERN MASSACHUSETTS.	1,070,367	5,256	824,672	32,373	2,799,847	3,069,905	2,048,633	1,510	300,500	273,464
INNER GROUNDS.	50,015	-	63,153	1,120	3,466	922,610	322,442	-	-	61,713
WEST SIDE SOUTH CHANNEL.	628,344	11,395	747,274	303,115	1,257,789	16,262,996	9,672,042	20,605	10,285	306,611
EAST SIDE SOUTH CHANNEL.	2,440,328	9,593	403,522	426,411	2,428,398	12,877,050	6,541,729	567	-	111,131
NORTHERN EDGE & NORTHEAST PEAK .	472,391	600	34,674	183,762	1,421,563	8,773,378	13,107,895	41,538	-	32,519
CENTRAL & SOUTHEAST GEORGES. . .	300,334	8,595	71,260	722,307	27,059,796	6,101,732	8,726,052	46,575	-	5,516
SOUTHWEST GEORGES.	32,137	15,420	14,874	125,471	1,927,191	2,412,067	1,445,046	-	-	625
NANTUCKET SHOALS & LIGHTSHIP . .	10,360	435,570	151,240	223,120	25,454,265	926,136	1,153,491	-	-	-
OFF NO MANS LAND	3,921	153,407	14,551	26,120	7,469,070	47,018	13,225	-	2,557,150	-
SOUTHERN MASSACHUSETTS	-	197,695	1,940	10,775	65,085	125	400	-	-	-
RHODE ISLAND SHORE	-	505	1,275	-	491,475	-	-	-	-	-
OFF LONG ISLAND.	-	516,145	4,402	-	399,550	80	200	-	-	-
TOTAL.	5,517,056	1,354,181	2,902,261	2,064,863	70,857,817	59,045,742	52,252,703	189,195	2,875,115	1,054,660
SINK GILL NETS, EASTERN MASSACHUSETTS	-	-	-	-	-	225,340	-	-	-	42,850
SCALLOP DREDGES:										
WESTERN BROWNS	-	-	-	2,380	700	-	-	-	-	-
WESTERN MAINE.	-	-	-	1,000	-	-	-	-	-	-
EASTERN MASSACHUSETTS.	1,755	-	1,260	-	6,010	125	55	-	-	-
INNER GROUNDS.	-	-	-	1,000	-	-	-	-	-	-
WEST SIDE SOUTH CHANNEL.	-	-	-	787	925	-	-	-	-	-
EAST SIDE SOUTH CHANNEL.	11,220	-	1,700	6,940	10,000	-	425	-	-	-
NORTHERN EDGE & NORTHEAST PEAK .	-	-	-	2,460	2,940	-	400	-	-	-
CENTRAL & SOUTHEAST GEORGES. . .	-	375	975	628	12,500	-	-	-	-	-
SOUTHWEST GEORGES.	625	2,000	50	-	16,775	-	-	-	-	-
NANTUCKET SHOALS & LIGHTSHIP . .	-	-	-	1,330	10,870	-	190	-	-	-
TOTAL.	13,600	2,375	3,985	16,525	60,720	125	1,070	-	-	-
POUND NETS:										
EASTERN MASSACHUSETTS.	-	38	-	-	-	-	-	-	400	-
WEST SIDE SOUTH CHANNEL.	-	1,629	-	-	-	-	-	-	-	-
TOTAL.	-	1,667	-	-	-	-	-	-	400	-
GRAND TOTAL.	5,530,718	1,358,228	2,906,383	2,083,829	70,933,339	61,643,251	52,428,668	189,195	2,825,870	1,098,835

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	HAKE – CONTINUED	HALIBUT, DRAWN	MACKEREL, ROUND	MENHADEN, ROUND	OCEAN PERCH, ROUND	POLLOCK, DRAWN	SCUP OR PORGY, ROUND	SWORDFISH, DRESSED	TILEFISH, DRAWN	TUNA, ROUND
	WHITE, DRESSED									
	MEDIUM									
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
LINE TRAWLS:										
EASTERN MASSACHUSETTS.	1,805	2,135	-	-	-	11,866	-	-	-	-
INNER GROUNDS.	14,265	11,433	-	-	110	10,875	-	-	-	-
WEST SIDE SOUTH CHANNEL.	20,427	38,142	-	-	37	38,456	-	-	-	-
TOTAL.	36,497	51,710	-	-	147	61,197	-	-	-	-
HANDLINES:										
EASTERN MASSACHUSETTS.	-	-	-	-	-	130,175	-	-	-	2,668
WEST SIDE SOUTH CHANNEL.	983	3,540	-	-	-	68,163	-	-	-	-
TOTAL.	983	3,540	-	-	-	198,338	-	-	-	2,668
HARPOONS:										
EASTERN MASSACHUSETTS.	-	-	-	-	-	-	-	-	-	3,462
NANTUCKET SHOALS & LIGHTSHIP . . .	-	-	-	-	-	-	-	4,221	-	-
OFF NO MANS LAND	-	-	-	-	-	-	-	87,396	-	-
TOTAL.	-	-	-	-	-	-	-	91,617	-	3,462
LONGLINES:										
CENTRAL & SOUTHEAST GEORGES. . . .	-	-	-	-	-	-	-	110,888	-	2,024
NANTUCKET SHOALS & LIGHTSHIP . . .	-	-	-	-	-	-	-	355,469	-	69,684
OFF NO MANS LAND	-	-	-	-	-	-	-	43,347	-	91
OFF LONG ISLAND.	-	-	-	-	-	-	-	269,201	-	59,728
TOTAL.	-	-	-	-	-	-	-	778,905	-	131,527
OTTER TRAWLS:										
SOUTHWEST GRAND BANKS.	-	105	-	-	48,400	-	-	-	-	-
ST. PIERRE BANK.	-	482	-	-	62,000	-	-	-	-	-
EAST GULF OF ST. LAWRENCE.	65	1,542	-	-	3,998,220	40	-	-	-	-
NORTH GULF OF ST. LAWRENCE	65	3,479	-	-	4,770,972	-	-	-	-	-
SOUTH GULF OF ST. LAWRENCE	-	-	-	-	384,100	-	-	-	-	-
NORTHEAST CAPE BRETON.	375	2,107	-	-	2,048,968	400	-	-	-	-
MISAINE BANK	-	1,324	-	-	1,074,619	520	-	-	-	-
BANQUEREAU	250	1,831	-	-	1,230,420	100	-	-	-	-
CANSO.	-	-	-	-	608,742	5,000	-	-	-	-
MIDDLE GROUND.	-	144	-	-	107,500	33,675	-	-	-	-
SOUTHEAST SABLE ISLAND BANK. . . .	-	58	-	-	26,600	-	-	-	-	-
HORSESHOE GROUND	226	2,336	-	-	1,571,144	83,675	-	-	-	-
EASTERN NOVA SCOTIA.	1,525	772	-	-	2,405,106	18,655	-	-	-	-
CENTRAL NOVA SCOTIA.	781	1,474	-	-	2,672,817	17,625	-	-	-	-
EAST BROWNS & LA HAVE.	1,549	7,495	-	-	592,820	117,962	-	-	-	-
SOUTHERN NOVA SCOTIA	975	2,392	-	-	1,767,680	217,585	-	-	-	-
WESTERN BROWNS	10,579	13,930	-	-	413,392	983,401	-	-	-	-
WESTERN NOVA SCOTIA.	54,175	992	-	-	467,405	418,725	-	-	-	-
SOUTHERN BAY OF FUNDY.	13,687	491	-	-	35,670	37,500	-	-	-	-

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(CONTINUED ON NEXT PAGE)

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	HAKE - CONTINUED	HALIBUT, DRAWN	MACKEREL, ROUND	MENHADEN, ROUND	OCEAN PERCH, ROUND	POLLOCK, DRAWN	SCUP OR PORGY, ROUND	SWORDFISH, DRESSED	TILEFISH, DRAWN	TUNA, ROUND
	WHITE, DRESSED									
	MEDIUM									
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
OTTER TRAWLS - CONTINUED:										
NORTHERN BAY OF FUNDY.	120,694	1,985	-	-	98,165	298,052	-	-	-	-
EASTERN MAINE.	20,138	590	-	-	7,330	72,423	-	-	-	-
WESTERN MAINE.	45,512	1,100	-	-	378,035	129,721	-	-	-	-
EASTERN MASSACHUSETTS.	204,238	9,367	1,506	-	800,239	1,255,750	23,580	-	-	-
INNER GROUNDS.	56,961	4,958	-	-	1,608,722	419,045	-	-	-	-
WEST SIDE SOUTH CHANNEL.	354,938	17,846	75	-	2,022,698	1,351,923	780	-	-	-
EAST SIDE SOUTH CHANNEL.	294,675	26,060	-	-	1,010,380	2,284,880	-	-	-	-
NORTHERN EDGE & NORTHEAST PEAK .	70,997	18,723	-	-	86,106	1,984,320	-	-	-	-
CENTRAL & SOUTHEAST GEORGES. . .	29,825	15,276	-	-	31,532	279,289	-	-	-	-
SOUTHWEST GEORGES.	1,025	2,458	-	-	860	23,090	-	-	-	-
NANTUCKET SHOALS & LIGHTSHIP . .	950	1,375	-	-	640	9,060	9,655	-	163,065	-
OFF NO MANS LAND	5,540	116	-	-	240	41,095	8,695	-	42,248	-
SOUTHERN MASSACHUSETTS	8	-	-	-	-	3,618	397,060	-	-	-
RHODE ISLAND SHORE	-	-	-	-	-	-	650	-	-	-
OFF LONG ISLAND.	-	-	-	-	-	-	21,050	-	1,837	-
TOTAL.	1,289,753	140,808	1,581	-	30,331,522	10,087,129	461,470	-	207,150	-
FLOATING TRAPS, EASTERN MASSACHUSETTS	-	-	241,357	-	-	-	-	-	-	-
SINK GILL NETS, EASTERN MASSACHUSETTS	-	597		-	-	177,450	-	-	-	-
DRIFT GILL NETS:										
EASTERN MASSACHUSETTS.	-	-	80,233	-	-	-	-	-	-	-
WEST SIDE SOUTH CHANNEL.	-	-	7,081	-	-	-	-	-	-	-
TOTAL.	-	-	87,314	-	-	-	-	-	-	-
PURSE SEINES:										
EASTERN MASSACHUSETTS.	-	-	869,835	-	-	-	-	-	-	656,050
WEST SIDE SOUTH CHANNEL.	-	-	5,200	-	-	-	-	-	-	-
OFF NO MANS LAND	-	-	-	-	-	-	-	-	-	506,000
OFF LONG ISLAND.	-	-	459,200	-	-	-	-	-	-	1,566,387
TOTAL.	-	-	1,334,235	-	-	-	-	-	-	2,728,437
SCALLOP DREDGES:										
EASTERN MASSACHUSETTS.	35	14	-	-	-	-	-	-	-	-
NORTHERN EDGE & NORTHEAST PEAK .	-	30	-	-	-	-	-	-	-	-
SOUTHWEST GEORGES.	-	-	8,000	-	-	-	-	-	-	-
TOTAL.	35	44	8,000	-	-	-	-	-	-	-

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(CONTINUED ON NEXT PAGE)

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	HAKE - CONTINUED	HALIBUT, DRAWN	MACKEREL, ROUND	MENHADEN, ROUND	OCEAN PERCH, ROUND	POLLOCK, DRAWN	SCUP OR PORGY, ROUND	SWORDFISH, DRESSED	TILEFISH, DRAWN	TUNA, ROUND
	WHITE, DRESSED									
	MEDIUM									
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
POUND NETS:										
EASTERN MASSACHUSETTS.	-	-	1,001,116	-	-	33,693	-	-	-	345,263
WEST SIDE SOUTH CHANNEL.	-	-	51,822	2,050	-	-	22,858	-	-	906
SOUTHERN MASSACHUSETTS	-	-	10	-	-	-	2,976	-	-	-
TOTAL.	-	-	1,052,948	2,050	-	33,693	25,834	-	-	346,169
GRAND TOTAL.	1,327,268	196,699	2,725,435	2,050	30,331,669	10,557,807	487,304	870,522	207,150	3,212,263

GEAR AND SUBAREA	WHITING		WOLFFISH, DRAWN	SEA SCALLOP MEATS	UNCLASSIFIED		OTHER SPECIES	TOTAL
	ROUND	DRESSED			FOR FOOD	FOR INDUSTRIAL USE		
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
LINE TRAWLS:								
EASTERN MASSACHUSETTS.	-	-	550	-	236,480	-	720	882,880
INNER GROUNDS.	-	-	720	-	550	-	1,885	1,029,593
WEST SIDE SOUTH CHANNEL.	-	325	3,413	-	825	-	18,041	2,430,730
SOUTHERN MASSACHUSETTS	-	-	-	-	-	-	-	1,140
TOTAL.	-	325	4,683	-	237,855	-	20,646	4,344,343
HANDLINES:								
EASTERN MASSACHUSETTS.	-	-	-	-	342,840	-	51,432	539,094
WEST SIDE SOUTH CHANNEL.	-	-	1,030	-	-	-	874	1,713,147
TOTAL.	-	-	1,030	-	342,840	-	52,306	2,252,241
HARPOONS:								
EASTERN MASSACHUSETTS.	-	-	-	-	-	-	-	3,462
NANTUCKET SHOALS & LIGHTSHIP . .	-	-	-	-	-	-	-	4,221
OFF NO MANS LAND	-	-	-	-	-	-	-	87,396
TOTAL.	-	-	-	-	-	-	-	95,079
LONGLINES:								
CENTRAL & SOUTHEAST GEORGES. . .	-	-	-	-	-	-	232	113,144
NANTUCKET SHOALS & LIGHTSHIP . .	-	-	-	-	-	-	-	425,153
OFF NO MANS LAND	-	-	-	-	-	-	-	43,438
OFF LONG ISLAND.	-	-	-	-	-	-	3,832	332,761
TOTAL.	-	-	-	-	-	-	4,064	914,496

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LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	WHITING		WOLFFISH, DRAWN	SEA SCALLOP MEATS	UNCLASSIFIED		OTHER SPECIES	TOTAL
	ROUND	DRESSED			FOR FOOD	FOR INDUSTRIAL USE		
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
OTTER TRAWLS:								
SOUTHWEST GRAND BANKS.	-	-	-	-	-	-	-	48,505
ST. PIERRE BANK.	-	-	-	-	-	-	-	62,482
EAST GULF OF ST. LAWRENCE. . . .	-	-	-	-	900	-	-	4,002,064
NORTH GULF OF ST. LAWRENCE . . .	-	-	-	-	8,000	-	-	4,782,749
SOUTH GULF OF ST. LAWRENCE . . .	-	-	-	-	-	-	-	384,100
NORTHEAST CAPE BRETON.	-	-	-	-	5,300	-	-	2,057,800
MISAINE BANK	-	-	12	-	-	-	-	1,083,541
BANQUEREAU	-	-	-	-	500	-	-	1,472,506
CANSO.	-	-	-	-	-	-	-	645,905
MIDDLE GROUND.	-	-	63	-	-	-	-	159,990
SOUTHEAST SABLE ISLAND BANK. . .	-	-	-	-	-	-	-	26,658
HORSESHOE GROUND	-	-	-	-	1,500	-	-	1,691,639
EASTERN NOVA SCOTIA.	-	-	500	-	5,500	-	-	2,465,747
CENTRAL NOVA SCOTIA.	-	-	862	-	3,350	-	-	2,751,327
EASTERN BROWNS AND LA HAVE . . .	-	-	4,837	-	46,266	-	-	2,802,573
SOUTHERN NOVA SCOTIA	-	-	7,074	-	14,650	-	-	3,025,377
WESTERN BROWNS	100	-	185,788	-	16,214	-	2,485	14,246,510
WESTERN NOVA SCOTIA.	-	-	36,550	-	2,325	-	-	2,045,818
SOUTHERN BAY OF FUNDY.	-	-	913	-	-	-	-	506,679
NORTHERN BAY OF FUNDY.	700	-	19,753	-	-	-	130	2,906,647
EASTERN MAINE.	-	-	5,463	-	5,000	-	-	592,506
CENTRAL MAINE.	27,800	-	-	-	4,000	-	-	31,800
WESTERN MAINE.	10,218,283	7,050	3,761	-	131,150	-	315	12,234,315
EASTERN MASSACHUSETTS.	32,480,611	892,185	76,061	25	5,213,633	3,994,930	2,346,231	62,901,563
INNER GROUNDS.	32,430	6,650	2,159	-	21,516	-	3,148	3,930,976
WEST SIDE SOUTH CHANNEL.	11,479,716	148,430	54,150	-	208,795	2,298,415	478,953	57,967,215
EAST SIDE SOUTH CHANNEL.	473,505	1,950	41,183	-	70,820	-	13,704	33,351,309
NORTHERN EDGE & NORTHEAST PEAK .	12,500	1,100	147,416	-	7,366	-	21,825	32,701,203
CENTRAL & SOUTHEAST GEORGES. . .	-	-	63,070	-	2,000	-	3,680	47,483,149
SOUTHWEST GEORGES.	-	-	8,825	-	600	-	733,085	7,434,368
NANTUCKET SHOALS & LIGHTSHIP . .	-	-	1,600	-	-	135,500	869,942	35,901,437
OFF NO MANS LAND	1,562,940	-	-	-	5,205	18,100,168	98,317	30,510,194
SOUTHERN MASSACHUSETTS	-	-	-	-	-	-	9,845	1,416,480
RHODE ISLAND SHORE	-	-	-	-	-	-	-	512,740
OFF LONG ISLAND.	-	-	-	-	-	-	695	953,619
TOTAL.	56,288,585	1,057,365	660,040	25	5,774,590	24,529,013	4,582,355	375,091,491
FLOATING TRAPS, EASTERN MASSACHUSETTS	320	-	20	-	44,865	-	633	287,195
SINK GILL NETS, EASTERN MASSACHUSETTS	-	-	-	-	277,155	-	2,085	1,080,616
DRIFT GILL NETS:								
EASTERN MASSACHUSETTS.	190	-	-	-	575	-	867	81,865
WEST SIDE SOUTH CHANNEL.	-	-	-	-	-	-	126	7,207
TOTAL.	190	-	-	-	575	-	993	89,072

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	WHITING		WOLFFISH, DRAWN	SEA SCALLOP MEATS	UNCLASSIFIED		OTHER SPECIES	TOTAL
	ROUND	DRESSED			FOR FOOD	FOR INDUSTRIAL USE		
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
PURSE SEINES:								
EASTERN MASSACHUSETTS.	-	-	-	-	-	-	4,006,180	5,532,065
WEST SIDE SOUTH CHANNEL.	-	-	-	-	-	-	160,220	165,420
OFF NO MANS LAND	-	-	-	-	-	-	-	506,000
OFF LONG ISLAND.	-	-	-	-	-	-	-	2,025,587
TOTAL.	-	-	-	-	-	-	4,166,400	8,229,072
SCALLOP DREDGES:								
WESTERN BROWNS	-	-	-	35,573	-	-	-	39,403
WESTERN MAINE.	-	-	-	6,000	-	-	-	7,130
EASTERN MASSACHUSETTS.	-		1,165	217,506	-	-	-	248,190
INNER GROUNDS.	-	-	-	6,000	-	-	-	7,130
WEST SIDE SOUTH CHANNEL.	-	-	-	1,044,653	-	-	-	1,051,328
EAST SIDE SOUTH CHANNEL.	-	-	-	2,410,340	-	-	-	2,453,535
NORTHERN EDGE & NORTHEAST PEAK .	-	-	-	1,127,292	-	-	-	1,133,747
CENTRAL & SOUTHEAST GEORGES. . .	-	-	-	2,233,208	-	-	-	2,248,588
SOUTHWEST GEORGES.	-	-	-	4,206,302	-	-	-	4,234,077
NANTUCKET SHOALS & LIGHTSHIP . .	-	-	-	2,013,246	-	-	-	2,043,351
RHODE ISLAND SHORE	-	-	-	1,460	-	-	-	1,460
OFF LONG ISLAND.	-	-	-	302,230	-	-	-	302,230
TOTAL.	-	-	1,165	13,603,810	-	-	-	13,770,169
POUND NETS:								
EASTERN MASSACHUSETTS.	14,330	-	-	-	-	-	1,737,995	3,132,935
WEST SIDE SOUTH CHANNEL.	-	-	-	-	-	-	253,163	333,825
SOUTHERN MASSACHUSETTS	-	-	-	-	-	-	6,694	9,680
TOTAL.	14,330	-	-	-	-	-	1,997,852	3,476,440
GRAND TOTAL.	56,303,425	1,057,690	666,938	13,603,835	6,677,880	24,529,013	10,827,334	409,630,214

1/ EXCLUSIVE OF DUPLICATION.

NOTE:--ALL SPECIES ARE LISTED AS LANDED WEIGHT. LANDED WEIGHT OF FINFISH MAY BE CONVERTED TO ROUND WEIGHT BY MULTIPLYING BY THE FOLLOWING FACTORS: COD, DRAWN 1.17; CUSK, DRAWN 1.13; HADDOCK, DRAWN 1.14; WHITE HAKE, DRESSED 1.34; HALIBUT, DRAWN 1.15; POLLOCK, DRAWN 1.13; WHITING, DRESSED 1.66; AND WOLFFISH, DRAWN 1.20. THIS REPORT INCLUDES ALL LANDINGS IN MASSACHUSETTS EXCEPT THE INSHORE CATCH OF SHELLFISH, ETC., (PRINCIPALLY LOBSTERS, CLAMS, IRISH MOSS, SEA MUSSELS, AND BAY SCALLOPS) AND LESSER QUANTITIES OF FINFISH (ALEWIVES, STRIPED BASS, MACKEREL, ETC.). COMPARATIVE DATA ON LANDINGS IN 1963 ACCOUNTED FOR 97.7 PERCENT OF THE MASSACHUSETTS TOTAL CATCH. A SINGLE TRIP IS REPORTED FOR EACH VOYAGE. DAYS ABSENT IS THE MEASURE OF TIME, TO THE NEAREST COMPLETE DAY, THAT A VESSEL IS AWAY FROM PORT DURING A FISHING TRIP. WHEN A CRAFT OPERATED IN TWO OR MORE SUBAREAS DURING A VOYAGE, A FRACTIONAL PART (IN TENTHS) OF THE TRIP IS ALLOTTED TO THE SUBAREA ON THE BASIS OF THE CATCH TAKEN IN EACH SUBAREA. "OCCASIONAL" AFTER THE NAME OF A SUBAREA INDICATES THAT THE CRAFT CONTRIBUTING TO THE CATCH AS SHOWN FISHED CHIEFLY WITH ANOTHER TYPE OF GEAR. DAYS FISHED IS THE TIME ACTUAL FISHING OPERATIONS WERE CARRIED ON, EXPRESSED TO THE NEAREST TENTH OF A DAY. TO OBTAIN FISHING TIME IN HOURS, MULTIPLY NUMBER OF DAYS FISHED BY 24.

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY AREA AND SUBAREA, 1964

AREA AND SUBAREA	CRAFT FISHING	TRIPS	DAYS ABSENT	DAYS FISHED	COD, DRAWN			CUSK, DRAWN	FLOUNDERS, ROUND	
					LARGE	MARKET	SCROD		BLACK-BACK	DAB
	NUMBER	NUMBER	NUMBER	NUMBER	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
GULF OF ST. LAWRENCE (AREA XIX):										
EAST GULF OF ST. LAWRENCE. . . .	11	21.1	301	69.1	50	925	-	12	-	22
NORTH GULF OF ST. LAWRENCE . . .	11	24.7	337	87.7	50	25	-	13	-	23
SOUTH GULF OF ST. LAWRENCE . . .	5	2.3	29	6.2	-	-	-	-	-	-
TOTAL.	1/ 12	48.1	667	163.0	100	950	-	25	-	45
OFF GRAND BANKS (AREA XX):										
SOUTHWEST GRAND BANKS.	1	.2	3	4.5	-	-	-	-	-	-
ST. PIERRE BANK.	1	.4	8	2.0	-	-	-	-	-	-
TOTAL.	1/ 1	.6	11	6.5	-	-	-	-	-	-
OFF NOVA SCOTIA (AREA XXI):										
NORTHEAST CAPE BRETON.	12	10.4	142	53.1	-	100	-	-	-	-
MISAINE BANK	6	5.5	78	30.0	1,207	325	187	175	-	987
BANQUEREAU	12	9.6	147	46.0	-	10,125	-	90	-	22,050
CANSO.	6	4.4	68	19.3	-	1,100	-	438	-	2,750
MIDDLE GROUND.	7	2.2	43	10.0	220	2,750	-	425	-	813
SOUTHEAST SABLE ISLAND BANK. . .	1	.1	1	.7	-	-	-	-	-	-
HORSESHOE GROUND	11	10.2	136	38.2	1,090	7,216	600	1,723	-	848
EASTERN NOVA SCOTIA.	17	16.6	220	60.1	785	6,540	-	2,952	-	3,487
CENTRAL NOVA SCOTIA.	20	23.4	292	68.6	2,043	11,520	400	1,645	-	1,328
EASTERN GROUNDS & LA HAVE. . . .	44	32.0	271	147.6	67,076	104,557	21,905	38,513	75	17,524
SOUTHERN NOVA SCOTIA	37	35.7	332	148.2	38,393	58,375	10,190	8,483	1,200	7,227
WESTERN BROWNS	65	145.1	1,323	842.7	689,246	791,836	88,707	139,448	16,746	108,363
WESTERN NOVA SCOTIA.	26	33.1	291	169.4	80,148	118,355	42,695	55,957	25,885	48,422
SOUTHERN BAY OF FUNDY.	19	11.8	104	58.9	29,244	32,629	18,710	6,201	795	21,632
NORTHERN BAY OF FUNDY.	31	52.9	474	330.1	128,677	152,438	66,741	34,055	5,925	161,608
TOTAL.	1/ 88	393.0	3,922	2,022.9	1,038,129	1,297,866	250,135	290,105	50,626	397,039
NEW ENGLAND (AREA XXII):										
EASTERN MAINE.	19	13.7	118	70.8	38,425	46,008	17,552	10,171	37	23,770
CENTRAL MAINE.	2	.8	2	1.0	-	-	-	-	-	-
WESTERN MAINE.	47	340.8	606	280.6	71,919	143,494	47,641	42,314	3,390	88,005
EASTERN MASSACHUSETTS.	323	13,497.3	14,342	6,733.1	791,100	2,002,414	615,677	301,473	2,252,853	1,072,122
INNER GROUNDS.	71	245.7	772	469.1	182,200	185,202	48,773	274,100	1,023	50,015
WEST SIDE SOUTH CHANNEL.	316	4,949.1	10,462	6,366.5	3,468,228	3,692,715	826,466	251,214	4,360,757	628,406
EAST SIDE SOUTH CHANNEL.	213	888.5	6,129	4,303.3	1,671,221	1,375,552	191,820	253,392	416,348	2,451,548
NORTHERN EDGE & NORTHEAST PEAK .	127	464.5	4,039	2,917.9	2,728,255	2,492,202	623,818	211,503	227,377	472,391
CENTRAL & SOUTHEAST GEORGES. . .	175	1,044.1	7,659	5,003.5	1,775,064	1,332,302	111,463	45,241	753,142	300,334
SOUTHWEST GEORGES.	131	569.9	4,508	3,308.0	208,068	298,230	27,890	2,852	154,879	32,762
NANTUCKET SHOALS AND LIGHTSHIP .	204	1,499.2	8,445	5,280.6	277,628	1,423,400	56,525	1,480	4,614,150	10,360
OFF NO MANS LAND	149	957.4	2,793	1,500.3	17,468	78,490	3,035	125	262,050	3,921
SOUTHERN MASSACHUSETTS	56	320.0	636	370.3	2,262	35,345	-	-	693,462	-
RHODE ISLAND SHORE	18	34.9	166	72.3	100	1,360	-	-	17,375	-
TOTAL.	1/ 685	24,825.9	60,677	36,677.3	11,231,938	13,106,714	2,570,660	1,393,865	13,756,843	5,133,634
MIDDLE ATLANTIC (AREA XXIII), OFF LONG ISLAND	68	148.4	1,014	637.2	4,670	3,220	-	-	1,770	-
GRAND TOTAL.	1/ 690	25,416.0	66,291	39,506.9	12,274,837	14,408,950	2,820,795	1,683,995	13,809,239	5,530,718

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY AREA AND SUBAREA, 1964 - Continued

AREA AND SUBAREA	FLOUNDERS, ROUND - CONTINUED				HADDOCK, DRAWN			HAKE		
	FLUKE	GRAY SOLE	LEMON SOLE	YELLOW-TAIL	LARGE	SCROD	SNAPPER	RED, ROUND	WHITE, DRESSED	
									LARGE	MEDIUM
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
GULF OF ST. LAWRENCE (AREA XIX):										
EAST GULF OF ST. LAWRENCE. . . .	-	165	-	-	65	58	-	-	-	65
NORTH GULF OF ST. LAWRENCE . . .	-	-	-	-	65	57	-	-	-	65
TOTAL.	-	165	-	-	130	115	-	-	-	130
OFF NOVA SCOTIA (AREA XXI):										
NORTHEAST CAPE BRETON.	-	-	-	-	300	250	-	-	-	375
MISAINE BANK	-	187	-	-	2,205	1,118	-	-	675	-
BANQUEREAU	-	207,000	-	-	-	140	-	-	-	250
CANSO.	-	22,000	-	-	2,375	3,375	-	-	125	-
MIDDLE GROUND.	-	3,375	-	-	500	10,400	-	-	125	-
HORSESHOE GROUND	-	8,078	-	-	4,587	7,828	-	-	788	226
EASTERN NOVA SCOTIA.	-	1,038	-	-	3,038	13,274	-	-	2,575	1,525
CENTRAL NOVA SCOTIA.	-	2,022	-	-	18,687	15,761	-	-	1,012	781
EASTERN BROWNS & LA HAVE	-	2,982	143	671	689,305	1,087,473	-	-	1,420	1,549
SOUTHERN NOVA SCOTIA	-	8,210	116	2,415	370,555	508,407	-	-	1,450	975
WESTERN BROWNS	-	14,474	7,870	67,089	4,623,942	6,013,033	52,500	-	11,197	10,579
WESTERN NOVA SCOTIA.	-	25,400	75	4,525	331,810	318,009	-	-	14,365	54,175
SOUTHERN BAY OF FUNDY.	-	11,246	225	300	176,758	108,842	-	-	11,836	13,687
NORTHERN BAY OF FUNDY.	-	77,175	4,200	1,750	934,239	750,260	25,900	-	24,200	120,694
TOTAL.	-	383,187	12,629	76,750	7,158,301	8,838,170	78,400	-	69,768	204,816
NEW ENGLAND (AREA XXII):										
EASTERN MAINE.	-	17,352	-	900	170,532	135,275	-	-	21,540	20,138
WESTERN MAINE.	-	168,720	1,040	3,372	323,682	247,988	-	7,180	171,773	45,512
EASTERN MASSACHUSETTS.	5,294	825,932	32,373	2,807,677	3,490,605	2,081,103	1,510	300,900	316,814	206,078
INNER GROUNDS.	-	63,153	2,120	3,466	1,477,490	416,667	-	-	62,063	71,226
WEST SIDE SOUTH CHANNEL.	13,029	747,411	306,343	1,271,696	17,884,925	9,720,297	20,605	10,640	307,086	376,348
EAST SIDE SOUTH CHANNEL.	9,593	405,222	433,351	2,438,398	12,877,050	6,542,154	567	-	111,131	294,675
NORTHERN EDGE & NORTHEAST PEAK .	600	34,674	186,222	1,424,503	8,773,378	13,108,295	41,538	-	32,519	70,997
CENTRAL & SOUTHEAST GEORGES. . .	8,970	72,235	722,935	27,072,296	6,101,732	8,726,052	46,575	-	5,516	29,825
SOUTHWEST GEORGES.	17,420	14,924	125,471	1,943,966	2,412,067	1,445,046	-	-	625	1,025
NANTUCKET SHOALS AND LIGHTSHIP .	435,570	151,240	224,450	25,465,135	926,136	1,153,681	-	-	-	950
OFF NO MANS LAND	153,407	14,551	26,120	7,469,070	47,018	13,225	-	2,557,150	-	5,540
SOUTHERN MASSACHUSETTS	197,695	1,940	10,775	65,085	125	400	-	-	-	8
RHODE ISLAND SHORE	505	1,275	-	491,475	-	-	-	-	-	-
TOTAL.	842,083	2,518,629	2,071,200	70,457,039	54,484,740	43,590,183	110,795	2,875,870	1,029,067	1,122,322
MIDDLE ATLANTIC (AREA XXIII), OFF LONG ISLAND	516,145	4,402	-	399,550	80	200	-	-	-	-
GRAND TOTAL.	1,358,228	2,906,383	2,083,829	70,933,339	61,643,251	52,428,668	189,195	2,875,870	1,098,835	1,327,268

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY AREA AND SUBAREA, 1964 - Continued

AREA AND SUBAREA	HALIBUT, DRAWN	MACKEREL, ROUND	MENHADEN, ROUND	OCEAN PERCH, ROUND	POLLOCK, DRAWN	SCUP OR PORGY, ROUND	SWORD-FISH, DRESSED	TILEFISH, DRAWN	TUNA, ROUND
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
GULF OF ST. LAWRENCE (AREA XIX):									
EAST GULF OF ST. LAWRENCE. . . .	1,542	-	-	3,998,220	40	-	-	-	-
NORTH GULF OF ST. LAWRENCE . . .	3,479	-	-	4,770,972	-	-	-	-	-
SOUTH GULF OF ST. LAWRENCE . . .	-	-	-	384,100	-	-	-	-	-
TOTAL.	5,021	-	-	9,153,292	40	-	-	-	-
OFF GRAND BANKS (AREA XX):									
SOUTHWEST GRAND BANKS.	105	-	-	48,400	-	-	-	-	-
ST. PIERRE BANK.	482	-	-	62,000	-	-	-	-	-
TOTAL.	587	-	-	110,400	-	-	-	-	-
OFF NOVA SCOTIA (AREA XXI):									
NORTHEAST CAPE BRETON.	2,107	-	-	2,048,968	400	-	-	-	-
MISAINE BANK	1,324	-	-	1,074,619	520	-	-	-	-
BANQUEREAU	1,831	-	-	1,230,420	100	-	-	-	-
CANSO.	-	-	-	608,742	5,000	-	-	-	-
MIDDLE GROUND.	144	-	-	107,500	33,675	-	-	-	-
SOUTHEAST SABLE ISLAND BANK. . .	58	-	-	26,600	-	-	-	-	-
HORSESHOE GROUND	2,336	-	-	1,571,144	83,675	-	-	-	-
EASTERN NOVA SCOTIA.	772	-	-	2,405,106	18,655	-	-	-	-
CENTRAL NOVA SCOTIA.	1,474	-	-	2,672,817	17,625	-	-	-	-
EASTERN BROWNS & LA HAVE	7,495	-	-	592,820	117,962	-	-	-	-
SOUTHERN NOVA SCOTIA	2,392	-	-	1,767,680	217,585	-	-	-	-
WESTERN BROWNS	13,930	-	-	413,392	983,401	-	-	-	-
WESTERN NOVA SCOTIA.	992	-	-	467,405	418,725	-	-	-	-
SOUTHERN BAY OF FUNDY.	491	-	-	35,670	37,500	-	-	-	-
NORTHERN BAY OF FUNDY.	1,985	-	-	98,165	298,052	-	-	-	-
TOTAL.	37,331	-	-	15,121,048	2,232,875	-	-	-	-
NEW ENGLAND (AREA XXII):									
EASTERN MAINE.	590	-	-	7,330	72,423	-	-	-	-
WESTERN MAINE.	1,100	-	-	378,035	129,721	-	-	-	-
EASTERN MASSACHUSETTS.	12,113	2,194,047	-	800,239	1,608,934	23,580	-	-	1,007,443
INNER GROUNDS.	16,391	-	-	1,608,832	429,920	-	-	-	-
WEST SIDE SOUTH CHANNEL.	59,528	64,178	2,050	2,022,735	1,458,542	23,638	-	-	906
EAST SIDE SOUTH CHANNEL.	26,060	-	-	1,010,380	2,284,880	-	-	-	-
NORTHERN EDGE & NORTHEAST PEAK .	18,753	-	-	86,106	1,984,320	-	-	-	-
CENTRAL & SOUTHEAST GEORGES. . .	15,276	-	-	31,532	279,289	-	110,888	-	2,024
SOUTHWEST GEORGES.	2,458	8,000	-	860	23,090	-	-	-	-
NANTUCKET SHOALS AND LIGHTSHIP .	1,375	--	-	640	9,060	9,655	359,690	163,065	69,684
OFF NO MANS LAND	116	-	-	240	41,095	8,695	130,743	42,248	506,091
SOUTHERN MASSACHUSETTS	-	10	-	-	3,618	400,036	-	-	-
RHODE ISLAND SHORE	-	-	-	-	-	650	-	-	-
TOTAL.	153,760	2,266,235	2,050	5,946,929	8,324,892	466,254	601,321	205,313	1,586,148
MIDDLE ATLANTIC (AREA XXIII), OFF LONG ISLAND	-	459,200	-	-	-	21,050	269,201	1,837	1,626,115
GRAND TOTAL.	196,699	2,725,435	2,050	30,331,669	10,557,807	487,304	870,522	207,150	3,212,263

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY AREA AND SUBAREA, 1964 - Continued

AREA AND SUBAREA	WHITING		WOLFFISH, DRAWN	SEA SCALLOP MEATS	UNCLASSIFIED		OTHER SPECIES	TOTAL
	ROUND	DRESSED			FOR FOOD	FOR INDUSTRIAL USE		
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
GULF OF ST. LAWRENCE (AREA XIX):								
EAST GULF OF ST. LAWRENCE. . . .	-	-	-	-	900	-	-	4,002,064
NORTH GULF OF ST. LAWRENCE . . .	-	-	-	-	8,000	-	-	4,782,749
SOUTH GULF OF ST. LAWRENCE . . .	-	-	-	-	-	-	-	384,100
TOTAL.	-	-	-	-	8,900	-	-	9,168,913
OFF GRAND BANKS (AREA XX):								
SOUTHWEST GRAND BANKS.	-	-	-	-	-	-	-	48,505
ST. PIERRE BANK.	-	-	-	-	-	-	-	62,482
TOTAL.	-	-	-	-	-	-	-	110,987
OFF NOVA SCOTIA (AREA XXI):								
NORTHEAST CAPE BRETON.	-	-	-	-	5,300	-	-	2,057,800
MISAINE BANK	-	-	12	-	-	-	-	1,083,541
BANQUEREAU	-	-	-	-	500	-	-	1,472,506
CANSO.	-	-	-	-	-	-	-	645,905
MIDDLE GROUND.	-	-	63	-	-	-	-	159,990
SOUTHEAST SABLE ISLAND BANK. . .	-	-	-	-	-	-	-	26,658
HORSESHOE GROUND	-	-	-	-	1,500	-	-	1,691,639
EASTERN NOVA SCOTIA.	-	-	500	-	5,500	-	-	2,465,747
CENTRAL NOVA SCOTIA.	-	-	862	-	3,350	-	-	2,751,327
EASTERN BROWNS & LA HAVE	-	-	4,837	-	46,266	-	-	2,802,573
SOUTHERN NOVA SCOTIA	-	-	7,074	-	14,650	-	-	3,025,377
WESTERN BROWNS	100	-	185,788	35,573	16,214	-	2,485	14,285,913
WESTERN NOVA SCOTIA.	-	-	36,550	-	2,325	-	-	2,045,818
SOUTHERN BAY OF FUNDY.	-	-	913	-	-	-	-	506,679
NORTHERN BAY OF FUNDY.	700	-	19,753	-	-	-	130	2,906,647
TOTAL.	800	-	256,352	35,573	95,605	-	2,615	37,928,120
NEW ENGLAND (AREA XXII):								
EASTERN MAINE.	-	-	5,463	-	5,000	-	-	592,506
CENTRAL MAINE.	27,800	-	-	-	4,000	-	-	31,800
WESTERN MAINE.	10,218,283	7,050	3,761	6,000	131,150	-	315	12,241,445
EASTERN MASSACHUSETTS.	32,495,451	892,185	77,796	217,531	6,115,548	3,994,930	8,146,143	74,689,865
INNER GROUNDS.	32,430	6,650	2,879	6,000	22,066	-	5,033	4,967,699
WEST SIDE SOUTH CHANNEL.	11,479,716	148,755	58,593	1,044,653	209,620	2,298,415	911,377	63,668,872
EAST SIDE SOUTH CHANNEL.	473,505	1,950	41,183	2,410,340	70,820	-	13,704	35,804,844
NORTHERN EDGE & NORTHEAST PEAK .	12,500	1,100	147,416	1,127,292	7,366	-	21,825	33,834,950
CENTRAL & SOUTHEAST GEORGES. . .	-	-	63,070	2,233,208	2,000	-	3,912	49,844,881
SOUTHWEST GEORGES.	-	-	8,825	4,206,302	600	-	733,085	11,668,445
NANTUCKET SHOALS & LIGHTSHIP . .	-	-	1,600	2,013,246	-	135,500	869,942	38,374,162
OFF NO MANS LAND	1,562,940	-	-	-	5,205	18,100,168	98,317	31,147,028
SOUTHERN MASSACHUSETTS	-	-	-	-	-	-	16,539	1,427,300
RHODE ISLAND SHORE	-	-	-	1,460	-	-	-	514,200
TOTAL.	56,302,625	1,057,690	410,586	13,266,032	6,573,375	24,529,013	10,820,192	358,807,997
MIDDLE ATLANTIC (AREA XXIII), OFF LONG ISLAND	-	-	-	302,230	-	-	4,527	3,614,197
GRAND TOTAL.	56,303,425	1,057,690	666,938	13,603,835	6,677,880	24,529,013	10,827,334	409,630,214

1/ EXCLUSIVE OF DUPLICATION.

SURVEY PROCEDURE IN THE NEW ENGLAND STATES

Statistical programs in the New England States are under the general supervision of the Bureau's regional office in Gloucester, Mass., with direct supervision by a regional supervisor for statistics also at Gloucester. The operation is carried on by field reporters at Rockland, Boothbay Harbor, and Portland, Me.; Boston, Gloucester, Provincetown, and New Bedford, Mass.; and Warren and Point Judith, R.I. They are specialists trained in obtaining and reporting fishery statistical data on a daily, monthly, and annual basis. Information on the volume and value of the catch by species, gear, and area of capture is obtained from fishermen and buyers of fish, shellfish, and other marine products. Special surveys are conducted for statistics on employment of fishermen, shoreworkers, fishing craft and gear, and the production of processed fishery products.

Catch. The fishery reporting specialists obtain daily individual trip data for all landings at their respective ports. They also interview a high percentage of trips for information on fishing effort and area of capture. These data are entered on punch cards for use in preparing monthly and annual tabulations of catch by species, gear, area of capture, and county where landed. Complete information on State landings is not always included because deliveries may be made at ports not covered daily. Information on these landings is obtained annually.

Maine. Each month, all areas in Maine, except Portland and Rockland, are canvassed by a Bureau representative and a State employee to obtain from each dealer and buyer a report on the quantity of fish, shellfish, and worms, by species, purchased from fishermen. These data are entered on punchcards at the same time as those for the major ports, thus providing complete information on Maine landings for the month.

Current cumulative tabulations of the monthly landings by area are maintained, and shortly after the end of each year, a revised tabulation is prepared listing by county and month all species taken during the year. Any revisions in the monthly data are included, and data on sea moss, which is shown only annually, are added.

Massachusetts. Daily information on Massachusetts landings is assembled for Boston, Gloucester, New Bedford, Plymouth, and Cape Cod ports. Detailed statistics are obtained on the volume and value of the catch for each vessel by species, gear used, and the subarea in which the catch was made. Additional detailed information on the time spent in fishing, depth fished, etc., is obtained for 12 study vessels.

Landings at the major ports in Massachusetts constitute about 98 percent of the total annual catch for that State. Species not covered are most shellfish (other than sea scallops and trawl caught lobsters) and some minor finfish species such as smelt, eels, and river-run alewives. Information on the catch of lobsters is obtained from annual reports which each fisherman is required to file with the State. Statistics on other shellfish and alewife catches are secured from town shellfish wardens. Data on the remaining species are collected by annual personal interviews with fishermen and dealers and are prorated to the area of capture and gear used. The information is forwarded to the Washington office to be machine processed with other figures for the State.

Rhode Island. Data to complete the monthly Rhode Island Landings bulletin are collected and tabulated each month in the fishery statistical office at Warren. Detailed information is assembled on daily landings at Point Judith and Newport. Cumulative tabulations are maintained on the monthly catch by county and by area. After the close of each year, a revised tabulation is prepared and issued as an annual Rhode Island Landings bulletin.

Connecticut. Landings data for Connecticut are obtained by an annual questionnaire which the State sends to each fisherman and by visits that the Bureau's employee stationed at Warren, R.I., pays to fishermen and dealers. At Stonington, a part-time employee records individual vessel landings (hails). Daily information is obtained by the New York Fishery Market News office on shipments from Connecticut received on the market. These are tabulated at the Gloucester office. At the end of the year, data from these various sources are summarized by the Rhode Island field reporter, listed by county, prorated to area of capture based on interviews with fishermen and dealers, and entered on schedules which are forwarded to the Washington office for processing.

Summary. At the end of the year, all catch data are consolidated into summary tabulations for each State, by species, by county and gear. After being reviewed by the field staff and the Washington office, the tabulations are published.

Operating Units. A set of prepunched Bureau of Customs vessel cards containing the name of the vessel, the official number, the rig code, gross tons, length, and year built is furnished field reporters each year. Reporters interview the captains of the vessels to obtain area fished; number of crew; and number, type, and quantity of gear used in each fishery. The Gloucester office adds to the vessel punchcards the data on the crew and gear. The number of crew is the maximum number of crewmen aboard the vessel at any one time for each gear operated. Number and quantity of gear reported for each vessel is the greatest quantity used at one time. Gear ashore or carried aboard the vessel for replacement is not included. Machine tabulations of vessel landings provide information on the vessels that fished at major ports during the year. Throughout the year, field reporters prepare supplemental vessel lists for areas other than major ports, which are combined into one list at the end of the year. In detailed State operating unit tabulations, operating unit information on the number of men and craft is shown for each gear. In the summary for the State, however, they are shown only once.

Data on crew and gear are added to the vessel punchcards by the Gloucester office. Data relating to the operation of craft of less than 5 net tons and fishermen operating without boats are classified as the shore and boat fishery, and one or more cards are prepared for the total number of boats, etc., using each type of gear in each county.

The vessel, boat, and shore cards are punched at the Gloucester statistical office, processed by the Woods Hole tabulating unit, and returned to Gloucester, where operating unit tables are prepared. These tables are reviewed and corrected by area supervisors, who forward them to the Washington office. Any discrepancies are reconciled by field and central office personnel, and an annual summary entitled New England Fisheries is published.

Processed Fishery Products. Data on the production of processed fishery products are obtained monthly, quarterly, or annually through the use of questionnaires and followup visits where necessary. As the reports are received, they are checked for discrepancies and then forwarded to the Washington office. Summaries of the annual data appear in the Canned, Industrial, Manufactured, and Packaged Fishery Products bulletins.

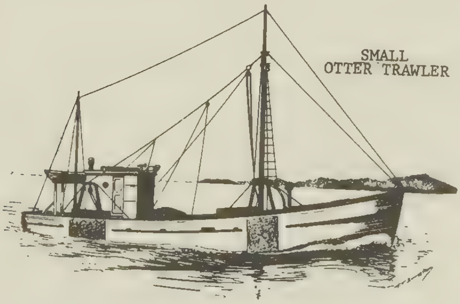
Fish Sticks and Portions, and Breaded Shrimp. Data on the production of fish sticks and portions and breaded shrimp summarized on a monthly basis are collected quarterly by field reporters on forms (schedules) provided by the central office. The forms are mailed to producers at the end of each quarter, and if the forms are not returned, the firms are contacted by a field reporter. The information is published by the central office in a quarterly report entitled, Fish Sticks, Fish Portions, and Breaded Shrimp. At the end of the year, the data are summarized, figures are obtained on the value of the production, and an annual summary is published.

Fish Meal, Oil, and Solubles. Data on the production of fish meal, oil, and solubles are collected monthly by field reporters, who, on the first of each month, mail the data forms to each of the meal producing firms in the area. The forms request production figures on meal, oil, and solubles; menhaden plants are also asked about the number of fish received. When completed forms are not returned, the field reporter obtains the data by telephone or in person. After review by field personnel, the reports are forwarded to the Washington office, where the data are tabulated and published monthly in a bulletin entitled Fish Meal and Oil. At the end of the year, the data for each firm are returned to the field for review and revision, if necessary, before being tabulated and published in the annual bulletins, Industrial Fishery Products and Fish Meal and Oil.

Freezings and Cold Storage Holdings. Collection of data on the monthly freezings and holdings of fishery products in New England is handled cooperatively by the Bureau and the U.S. Department of Agriculture. Statistical and market news personnel in New England obtain monthly freezings and storage figures from 34 firms in coastal areas. The Department of Agriculture conducts a mail canvass of three firms.

The figures are machine tabulated by the central office of the Branch of Fishery Statistics. National data on freezings and holdings are published in preliminary cold storage reports, which are released on the 15th of each month unless the date falls on a holiday or weekend. Summaries are issued by the Bureau's Fishery Market News offices and the Department of Agriculture. Final monthly reports are published by the Branch of Fishery Statistics, as well as an annual Frozen Fishery Products bulletin, which lists the firms that furnished information on the fishery cold storage activities.

Market News Reporting. A great deal of current fishery data appears in the Fishery Products Reports issued daily by the Boston and New York Fishery Market News offices. These reports show day-to-day fluctuations. Seasonal fluctuations can be determined by reviewing the monthly landings bulletins. The most complete annual data appear in the Statistical Digest, Fishery Statistics of the United States. Information on the catch by waters is not published but is machine processed and tabulations are furnished State and Federal laboratories along the New England coast.



SECTION 3 - MIDDLE ATLANTIC FISHERIES

The 1964 commercial landings of fish and shellfish in the coastal areas of the Middle Atlantic States (New York, New Jersey, and Delaware) were 370.2 million pounds valued at $20.9 million. Compared with 1963, this was a decline of 180.2 million pounds (33 percent) and $448,000 (2 percent). While landings of menhaden declined 233.6 million pounds, other industrial fish for reduction increased 60.1 million pounds.

New York was the leading producer of the Middle Atlantic States with 53 percent of the volume and 52 percent of the value, followed by New Jersey, 38 and 45; and Delaware, 9 percent of the volume and 3 percent of the value.

Fishermen and vessels. During 1964, there were 9,118 fishermen in the fisheries of the Middle Atlantic States, 565 more than in 1963. This relatively large increase took place among the inshore fishermen who shared improved catches of bay scallops and hard clams. Commercial fishing craft operated in these States consisted of 608 vessels (craft of 5-net tons and over), 4,015 motor boats, and 299 other boats--a decrease of 70 motor boats, but a gain of 9 vessels and 11 other boats.

Processing. Manufactured fishery products were valued at $86.6 million, a slight increase compared with the previous year. New York accounted for 45 percent of the value; New Jersey, 33; and Pennsylvania and Delaware, 22 percent.

Legislation. The New York State legislature amended laws affecting coastal fisheries for striped bass and fluke. In addition to placing minimum legal size limits of 16 and 14 inches, respectively, on these species, it removed seasonal or quantity limits on the catch. It also passed a bill, effective January 1, 1965, to permit the sale of legally caught striped bass and fluke throughout the year.

Surf clams. Increased consumer acceptance of surf clams was reflected in industry efforts to boost production. For the second consecutive year, production exceeded 38 million pounds, despite a strike by shuckers which reduced fishing time by approximately 2 months. A 673,000-pound catch decline in New Jersey was partly offset by a New York increase of 244,000 pounds.

Blue crabs. The crab fishery in Delaware Bay continued its downward trend. Fishermen believed that cool weather and natural mortality were responsible for the reduced landings of 882,000 pounds of hard crabs--down 36 percent from 1963 and the lowest point recorded in the Middle Atlantic States in 20 years.

Menhaden. The catch of menhaden in the Middle Atlantic States was the smallest since 1938. Only 139.3 million pounds were landed, down 233.6 million pounds (63 percent) from 1963. The decrease was partially compensated for by landings of unclassified industrial species.

Industrial otter trawl fishery. The industrial otter trawl fishery gave a substantial lift to the Middle Atlantic meal and oil industry.

Total landings of this fishery were 121.9 million pounds, almost twice the 1963 production. A factor which increased the New York receipts was the continued shutdown of the dehydration plant at Point Judith, R. I. Most of the Rhode Island industrial fish catch was shipped by carrier vessel to a Long Island plant for processing. For the first time, landings were made at New Jersey ports--only 4.2 million pounds but showing promise of greater activity in the future. A number of factors influenced the demand for industrial species for reduction: Production of meal and solubles in the United States was the lowest since 1953; the U. S. menhaden catch was the smallest since 1958; and the price of meal was high.

Fulton Fish Market. Landings by fishing craft at Fulton Street dropped to 6.4 million pounds--the lowest since 1938. A sizeable decline in scup early in the year, combined with a stronger market for sea scallops, caused many otter trawl operators to switch to the more lucrative scallop fishery. Shipments of fresh and frozen fishery products to the salt-water section of the Fulton Market reached a new high of 180.1 million pounds, 4 percent above 1963. Fresh-water receipts of 9.1 million pounds continued a downward trend evident over the past 10 years. New York City allocated $2.3 million for site acquisition and design of a relocated fish market. Estimated cost of the new market is about $15 million.

Hudson River fisheries. Commercial landings of Hudson River fish were at a new low in 1964--276,000 pounds valued at $45,000; a decline of more than 190,000 pounds and $46,000. Each year there are fewer fishermen and nets along the river.

Striped bass. Excellent early and late seasonal runs of this species helped boost production 37 percent to an alltime high of 2.0 million pounds in New York and New Jersey. In New York, the principal gear used was the haul seine, which produced 687,000 pounds; and in New Jersey, the otter trawl, 865,000 pounds.

Tuna. New Jersey tuna landings were 2.8 million pounds, only 70,000 pounds under the 1963 catch and 99 percent of the tuna taken in the Middle Atlantic States.

Oysters. The Middle Atlantic catch of oysters (1.4 million pounds) was 43 percent more than in the previous year. Tong and dredge oystermen in New Jersey, operating in newly-opened seed bed areas, took 113 percent more oysters than in 1963 and had the second best year since the MSX parasite decimated the industry in 1958. Production in New York declined 46 percent, with prospects doubtful for immediate improvement. The 1964 natural seed set in New York was insignificant, although some growers were able to raise seed oysters and sell them commercially. The industry continued trying to develop a method of raising oysters artifically in hatcheries.

Hard clams. Better prices, a good market, a shifting of clamming grounds in New York, and the opening of previously closed areas in New Jersey, resulted in a larger hard clam production in the Middle Atlantic States. Production increased to 7.7 million pounds of meats valued at $5.1 million--up 8 percent in volume and 19 percent in value compared with 1963. The Conservation Department of New York initiated a clam transplant program which produced excellent results. It increased optimism for future work in removing clams from unclean areas for relocation in certified waters. New York will soon join the ranks of the New England States which have established clam treatment plants. A new plant under construction at West Sayville, L. I., is expected to be in operation in 1965.

Swordfish. Longliners continued to dominate this lucrative fishery, with catches in excess of 450,000 pounds compared with 20,000 by the traditional harpoon. The catch was more than double that of 1963, with much of the credit due to out-of-State longliners who sold their product in New York and New Jersey. Attrition among the local boats was heavy, particularly in New Jersey, where only three vessel operators out of eight in 1963 remained in the fishery.

Lobsters. An increase of 42 percent in lobster landings to 1.6 million pounds resulted largely from discovery of new offshore grounds. This offshore fishery, which is carried out by specially rigged otter trawl vessels, accounted for 70 percent of the total catch, while 10 percent was taken as incidental catch in regular otter trawls; and 20 percent in lobster pots.

Bay scallops. The 1964 landings of bay scallops in the Middle Atlantic States were 1.1 million pounds valued at $886,000--a gain of 84 percent in quantity and 119 percent in value compared with the previous year.

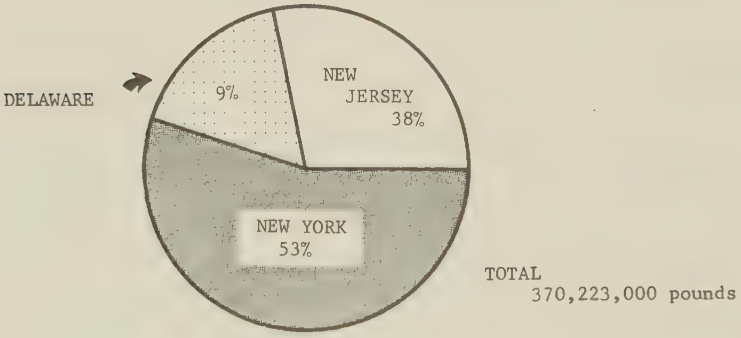
Excellent demand and high prices helped increase the New York bay scallop catch to 687,000 pounds of meats valued at $731,000--up 127 percent in volume and 150 percent in value from 1963. Although the 1964 New York catch was far below the record 988 million pounds taken in 1962, the value was $9,000 more. The large increase in catch was attributed to a late-season decision by the New York Department of Conservation to permit fishermen to harvest under-legal-size scallops, from areas usually subject to severe winter kill. These small scallops depressed prices considerably during December.

In New Jersey, Barnegat Bay scallopers also caught more of these shellfish. Ideal weather in the late fall and early winter, and the largest scallop population fishermen could recall led to a record production of 376,000 pounds of meats.

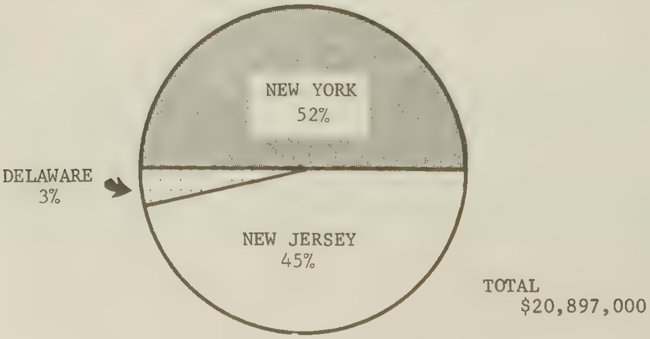
Further information. Condensed summary data on the operating units and catch, by States, appearing on the following pages have been previously published in Current Fishery Statistics No. 3870. Additional data may be found in the New York and New Jersey monthly and annual landing bulletins published in the Current Fishery Statistics Series by the Branch of Fishery Statistics in cooperation with the respective States. Information on daily, monthly, and annual production of fishery products in selected areas of these States is available in reports published by the Bureau's Fishery Market News Service at New York City.

Acknowledgments. The Bureau acknowledges the assistance of the following organizations in the collection of the data appearing in this section: The New York Conservation Department, Marine Fisheries Division, and Division of Fish and Game; New Jersey Conservation Department, Division of Fish and Game, New Jersey Shellfish Commission; State of Delaware, Commission of Shellfisheries.

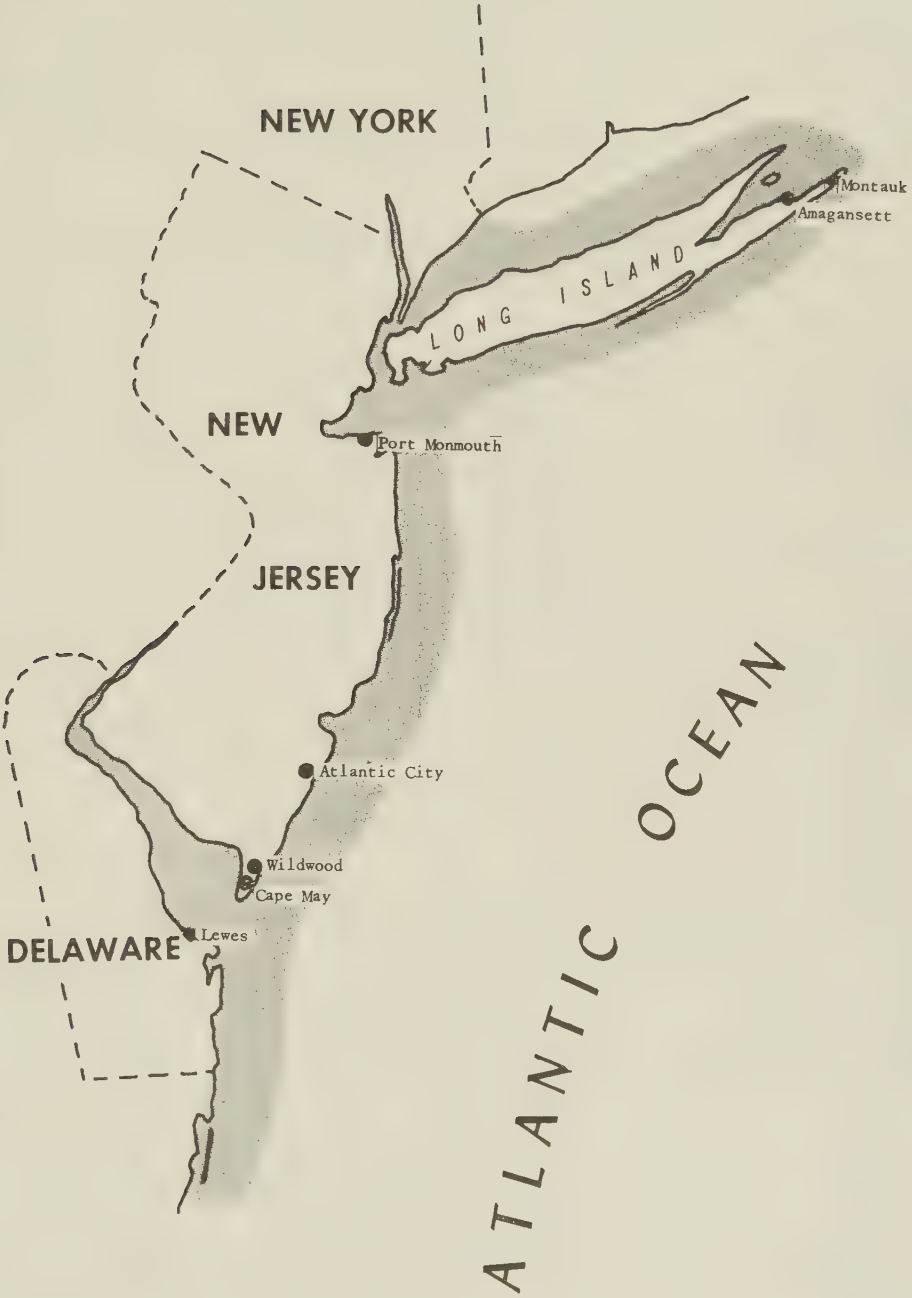
MIDDLE ATLANTIC STATES CATCH, 1964



VALUE OF THE MIDDLE ATLANTIC STATES CATCH, 1964



MIDDLE ATLANTIC FISHERIES


NEW YORK
LONG ISLAND
Montauk
Amagansett
NEW JERSEY
Port Monmouth
Atlantic City
Wildwood
Cape May
Lewes
DELAWARE
ATLANTIC OCEAN

MIDDLE ATLANTIC STATES

MIDDLE ATLANTIC FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF CATCH, 1964

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

STATE	FISH		SHELLFISH, ETC.		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW YORK.	186	4	11	7	197	11
NEW JERSEY.	96	4	43	5	139	9
DELAWARE.	33	1	1	(1)	34	1
TOTAL.	315	9	55	12	370	21

1/ LESS THAN $500,000.

SUMMARY OF OPERATING UNITS, 1964

ITEM	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS.	1,054	1,792	365	2,990
ON BOATS AND SHORE:				
REGULAR	1,338	606	67	1,998
CASUAL.	2,934	997	199	4,130
TOTAL.	5,326	3,395	631	9,118
VESSELS, MOTOR.	272	344	34	608
GROSS TONNAGE	13,903	18,548	4,246	33,293
BOATS:				
MOTOR	2,520	1,303	198	4,015
OTHER	111	176	12	299
GEAR:				
HAUL SEINES, COMMON . . .	39	38	1	78
LENGTH, YARDS	10,950	4,178	550	15,678
STOP SEINES	-	4	-	4
LENGTH, YARDS	-	1,600	-	1,600
PURSE SEINES:				
MENHADEN.	12	27	19	57
LENGTH, YARDS	5,060	10,540	7,600	22,800
TUNA.	1	5	-	6
LENGTH, YARDS	940	3,600	-	4,540
OTHER	-	24	-	24
LENGTH, YARDS	-	8,425	-	8,425
BEAM TRAWLS	-	3	-	3
YARDS AT MOUTH.	-	9	-	9
OTTER TRAWLS:				
FISH.	201	160	4	337
YARDS AT MOUTH. . . .	4,802	3,845	86	7,949
LOBSTER	7	34	-	39
YARDS AT MOUTH. . . .	202	929	-	1,076
WEIRS	-	5	-	5
POUND NETS, FISH	107	46	-	147
FYKE AND HOOP NETS:				
FISH.	87	49	69	205
TURTLE.	-	-	72	72
POTS AND TRAPS:				
CONCH	50	-	-	50
CRAB.	-	4,059	2,015	6,074
EEL	682	611	70	1,363
FISH.	1,950	18,154	-	20,104
LOBSTER	6,350	3,230	-	9,580
TURTLE.	-	129	-	129
GILL NETS:				
ANCHOR, SET OR STAKE. .	59	47	38	144
SQUARE YARDS.	75,148	90,003	63,180	228,331
DRIFT:				
SHAD.	35	12	10	57
SQUARE YARDS. . . .	103,484	18,706	5,450	127,640
OTHER	-	41	1	42
SQUARE YARDS. . . .	-	310,697	3,600	314,297
RUNAROUND	10	19	-	29
SQUARE YARDS.	16,000	134,833	-	150,833
LINES:				
HAND.	810	95	-	905
HOOKS	1,000	119	-	1,119

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1964 - Continued

ITEM	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
GEAR - CONTINUED:				
LINES - CONTINUED:				
TROLL.	-	60	-	60
HOOKS.	-	60	-	60
LONG OR SET WITH HOOKS .	56	47	3	108
HOOKS.	49,595	120,000	6,900	176,495
TROT WITH BAITS.	-	6	-	6
BAITS.	-	19,000	-	19,000
PUSH NETS.	-	6	-	6
HARPOONS	5	3	-	8
SPEARS	18	-	-	18
DREDGES:				
CLAM	37	59	17	113
YARDS AT MOUTH	28	82	24	134
CRAB	-	17	7	24
YARDS AT MOUTH	-	26	16	42
MUSSEL	-	1	-	1
YARDS AT MOUTH	-	3	-	3
OYSTER, COMMON	20	78	12	110
YARDS AT MOUTH	31	78	18	127
SCALLOP.	1,592	200	-	1,780
YARDS AT MOUTH	1,542	220	-	1,820
OTHER.	-	8	-	8
YARDS AT MOUTH	-	26	-	26
TONGS:				
OYSTER	15	182	-	197
OTHER.	1,867	875	45	2,787
RAKES.	1,629	630	120	2,379
HOES	-	14	-	14

CATCH BY STATES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	NEW YORK		NEW JERSEY		DELAWARE		TOTAL	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES	37	1	14	1	-	-	51	2
AMBERJACK.	-	-	(1)	(1)	-	-	(1)	(1)
ANGLERFISH	27	1	-	-	-	-	27	1
BLUEFISH	675	109	541	87	-	-	1,216	196
BONITO	6	1	6	1	-	-	12	2
BUTTERFISH	1,067	126	1,187	133	4	(1)	2,258	259
CARP	6	(1)	181	12	8	1	195	13
CATFISH.	5	1	41	4	1	(1)	47	5
COD.	516	72	283	45	53	6	852	123
DRUM, BLACK.	-	-	33	1	-	-	33	1
EELS:								
COMMON	174	26	79	11	12	2	265	39
CONGER	3	(1)	5	(1)	-	-	8	(1)
FLOUNDERS:								
BLACKBACK.	1,441	74	357	21	48	3	1,846	98
DAB.	1	(1)	-	-	-	-	1	(1)
FLUKE.	1,854	445	3,670	865	16	4	5,540	1,314
GRAY SOLE.	14	2	30	2	-	-	44	4
YELLOWTAIL	3,562	233	11	1	-	-	3,573	234
TOTAL FLOUNDERS	6,872	754	4,068	889	64	7	11,004	1,650
GRUNTS	-	-	1	(1)	-	-	1	(1)
HADDOCK.	47	6	1	(1)	-	-	48	6
HAKE:								
RED.	666	17	628	19	-	-	1,294	36
WHITE.	2	(1)	58	3	-	-	60	3
HERRING, SEA	155	3	302	6	11	1	468	10
KING WHITING OR "KINGFISH" .	12	1	23	2	5	(1)	40	3
MACKEREL	164	21	314	49	-	-	478	70
MARLIN	-	-	(1)	(1)	-	-	(1)	(1)
MENHADEN	42,425	516	64,279	970	32,554	378	139,258	1,864
MULLET	-	-	42	9	-	-	42	9
POLLOCK.	2	(1)	2	(1)	-	-	4	(1)
SCUP OR PORGY.	8,344	784	8,551	847	1	(1)	16,896	1,631
SEA BASS	501	96	2,195	335	-	-	2,696	431
SEA ROBIN.	25	1	43	1	-	-	68	2
SEA TROUT OR WEAKFISH, GRAY.	56	12	545	47	127	14	728	73
SHAD	141	23	430	54	150	19	721	96

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	NEW YORK		NEW JERSEY		DELAWARE		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
FISH - CONTINUED								
SHARKS:								
GRAYFISH	73	3	(1)	(1)	-	-	73	3
UNCLASSIFIED	2	(1)	7	(1)	-	-	9	(1)
TOTAL SHARKS	75	3	7	(1)	-	-	82	3
SILVERSIDES	157	16	-	-	-	-	157	16
SKATES	14	1	1	(1)	-	-	15	1
SPANISH MACKEREL	-	-	(1)	(1)	-	-	(1)	(1)
SPOT	-	-	(1)	(1)	-	-	(1)	(1)
STRIPED BASS	995	141	996	174	31	6	2,022	321
STURGEON	12	2	13	3	3	1	28	6
SUCKERS	(1)	(1)	-	-	-	-	(1)	(1)
SUNFISH	(1)	(1)	-	-	-	-	(1)	(1)
SWELLFISH	550	23	131	5	4	(1)	685	28
SWORDFISH	171	58	307	103	-	-	478	161
TAUTOG	20	1	37	1	-	-	57	2
TILEFISH	82	8	67	4	-	-	149	12
TOMCOD	2	1	-	-	-	-	2	1
TUNA:								
BLUEFIN	20	2	2,758	139	-	-	2,778	141
LITTLE	3	(1)	-	-	-	-	3	(1)
TOTAL TUNA	23	2	2,758	139	-	-	2,781	141
WHITE PERCH	137	16	79	11	28	3	244	30
WHITING	3,123	159	3,271	154	-	-	6,394	313
YELLOW PERCH	(1)	(1)	(1)	(1)	-	-	(1)	(1)
UNCLASSIFIED:								
FOR FOOD	349	33	30	2	-	-	379	35
BAIT, REDUCTION, AND ANIMAL FOOD	117,913	886	4,738	36	-	-	122,651	922
TOTAL FISH	185,551	3,921	96,287	4,158	33,056	438	314,894	8,517
SHELLFISH, ETC.								
CRABS:								
BLUE:								
HARD	-	-	569	82	313	32	882	114
SOFT AND PEELER	-	-	10	2	2	1	12	3
ROCK	-	-	45	2	-	-	45	2
TOTAL CRABS	-	-	624	86	315	33	939	119
HORSESHOE CRABS	-	-	354	2	-	-	354	2
LOBSTERS, NORTHERN	547	306	1,061	516	-	-	1,608	822
SHRIMP	-	-	2	2	-	-	2	2
CLAMS:								
HARD:								
PUBLIC	2,956	2,309	1,891	819	296	135	5,143	3,263
PRIVATE	2,446	1,827	3	1	122	50	2,571	1,878
RAZOR	6	1	-	-	-	-	6	1
SOFT, PUBLIC	181	56	22	9	-	-	203	65
SURF	1,218	109	36,875	2,504	-	-	38,093	2,613
TOTAL CLAMS	6,807	4,302	38,791	3,333	418	185	46,016	7,820
CONCHS	41	8	191	39	-	-	232	47
MUSSELS, SEA	125	17	1	(1)	-	-	126	17
OYSTERS, MARKET:								
PUBLIC:								
SPRING	14	21	5	6	-	-	19	27
FALL	35	49	87	86	10	6	132	141
PRIVATE:								
SPRING	77	114	14	18	15	8	106	140
FALL	87	132	992	914	20	13	1,099	1,059
TOTAL OYSTERS	213	316	1,098	1,024	45	27	1,356	1,367
SCALLOPS:								
BAY	687	731	376	155	-	-	1,063	886
SEA	2,044	1,115	140	79	-	-	2,184	1,194
SQUID	1,007	74	377	22	-	-	1,384	96
TERRAPIN	-	-	4	1	-	-	4	1
TURTLES:								
LOGGERHEAD	-	-	1	(1)	-	-	1	(1)
SNAPPER	-	-	53	6	5	1	58	7
UNCLASSIFIED	-	-	2	(1)	-	-	2	(1)
TOTAL SHELLFISH, ETC.	11,471	6,869	43,075	5,265	783	246	55,329	12,380
GRAND TOTAL	197,022	10,790	139,362	9,423	33,839	684	370,223	20,897

1/ LESS THAN 500 POUNDS OR $500.

NOTE:--STATISTICS ON THE CATCH ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS. CLAMS, CONCHS, MUSSELS, AND OYSTERS ARE REPORTED IN WEIGHT OF TOTAL MEATS. SCALLOPS ARE REPORTED IN WEIGHT OF EDIBLE MEATS.

CATCH OF CERTAIN SHELLFISH, 1964

(NUMBER AND BUSHELS)

SPECIES		NEW YORK		NEW JERSEY		DELAWARE		TOTAL	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CRABS:									
BLUE:									
HARD	NUMBER	-	-	1,366,800	$81,487	751,920	$32,330	2,118,720	$113,817
SOFT AND PEELER	DO	-	-	46,284	1,919	9,200	950	55,484	2,869
ROCK	DO	-	-	126,000	1,515	-	-	126,000	1,515
CLAMS:									
HARD:									
PUBLIC	U. S. STANDARD BUSHELS	246,350	$2,308,641	189,120	819,049	37,000	135,219	472,470	3,262,909
PRIVATE	DO	203,841	1,826,904	280	1,120	15,250	49,575	219,371	1,877,599
RAZOR	DO	369	1,464	-	-	-	-	369	1,464
SOFT, PUBLIC	DO	11,300	55,677	1,792	8,965	-	-	13,092	64,642
SURF	DO	71,629	108,852	2,169,129	2,503,719	-	-	2,240,758	2,612,571
CONCHS	DO	2,727	7,989	9,545	39,076	-	-	12,272	47,065
MUSSELS, SEA	DO	12,490	16,512	60	300	-	-	12,550	16,812
OYSTERS, MARKET:									
PUBLIC:									
SPRING	DO	1,893	21,025	725	5,663	-	-	2,618	26,688
FALL	DO	4,707	49,077	13,929	86,048	1,492	6,000	20,128	141,125
PRIVATE:									
SPRING	DO	10,307	113,421	1,929	18,298	2,231	8,344	14,467	140,063
FALL	DO	11,560	131,514	138,014	914,401	3,154	12,640	152,728	1,058,555
SCALLOPS:									
BAY	DO	114,517	731,474	55,338	154,911	-	-	169,855	886,385
SEA	DO	340,716	1,114,682	23,383	79,756	-	-	364,099	1,194,438

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

AVERAGE WEIGHTS OF CERTAIN SHELLFISH, 1964

SPECIES		NEW YORK	NEW JERSEY	DELAWARE
		QUANTITY	QUANTITY	QUANTITY
CRABS:				
BLUE:				
HARD	NUMBER PER POUND	-	2.40	2.40
SOFT AND PEELER	DO	-	4.82	4.00
ROCK	DO	-	2.80	-
CLAMS:				
HARD:				
PUBLIC	LBS. MEATS PER U. S. STANDARD BUSHEL	12.00	10.00	8.00
PRIVATE	DO	12.00	10.00	8.00
RAZOR	DO	16.00	-	-
SOFT, PUBLIC	DO	16.00	12.00	-
SURF	DO	17.00	17.00	-
CONCHS	DO	15.00	20.00	-
MUSSELS, SEA	DO	10.00	10.00	-
OYSTERS, MARKET:				
PUBLIC:				
SPRING	DO	7.50	6.90	-
FALL	DO	7.50	6.25	6.50
PRIVATE:				
SPRING	DO	7.50	7.00	6.50
FALL	DO	7.50	7.19	6.50
SCALLOPS:				
BAY	DO	6.00	6.80	-
SEA	DO	6.00	6.00	-

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

MANUFACTURED FISHERY PRODUCTS, 1964

ITEM		NEW YORK		NEW JERSEY		PENNSYLVANIA AND DELAWARE	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ANCHOVY PASTE, CANNED	STANDARD CASES	(1)	(1)	-	-	-	-
BUFFALOFISH, SMOKED	POUNDS	50,000	$44,600	-	-	-	-
BUTTERFISH, SMOKED	DO	375,000	299,250	(1)	(1)	-	-
CARP, SMOKED	DO	(1)	(1)	(1)	(1)	-	-
CHUBS, SMOKED	DO	2,540,000	1,876,000	(1)	(1)	-	-
COD:							
FILLETS, FRESH	DO	2,038,900	957,318	(1)	(1)	(1)	(1)
SPECIALTIES:							
FROZEN (BREADED RAW AND COOKED CAKES)	DO	(1)	(1)	(1)	(1)	1,518,476	$493,897
CANNED	STANDARD CASES	-	-	(1)	(1)	-	-
SALTED AND SMOKED	POUNDS	(1)	(1)	(1)	(1)	-	-
EELS, SMOKED	DO	131,500	124,100	36,000	$25,200	-	-
FLOUNDER:							
FILLETS:							
FRESH AND FROZEN	DO	3,889,800	2,195,026	(1)	(1)	(1)	(1)
BREADED RAW AND COOKED, FROZEN	DO	(1)	(1)	(1)	(1)	-	-
SPECIALTIES, FROZEN (BREADED WHOLE, STUFFED)	DO	-	-	(1)	(1)	-	-
HADDOCK:							
FILLETS:							
FRESH	DO	619,900	309,750	(1)	(1)	(1)	(1)
BREADED AND COOKED, FROZEN	DO	(1)	(1)	-	-	-	-
SPECIALTIES, FROZEN (STUFFED)	DO	(1)	(1)	-	-	-	-
SMOKED	DO	(1)	(1)	-	-	-	-
HAKE FILLETS, FRESH	DO	50,500	17,170	-	-	-	-
HALIBUT SPECIALTIES, FROZEN (AU GRATIN)	DO	(1)	(1)	-	-	-	-
HERRING:							
LAKE, SMOKED	DO	(1)	(1)	-	-	-	-
SEA:							
SPECIALTIES, CURED AND REFRIGERATED (BISMARK, IN WINE SAUCE, LUNCH HERRING, ETC.)	DO	1,072,165	707,881	-	-	-	-
SALTED	DO	(1)	(1)	-	-	(1)	(1)
SMOKED	DO	16,157	5,994	-	-	(1)	(1)
LUMPFISH, CAVIAR	STANDARD CASES	(1)	(1)	-	-	-	-
MACKEREL:							
FILLETS, SALTED	POUNDS	-	-	-	-	(1)	(1)
SMOKED	DO	(1)	(1)	-	-	-	-
MENHADEN:							
MEAL AND SCRAP	TONS	(1)	(1)	5,537	670,841	(1)	(1)
OIL	1,000 POUNDS	(1)	(1)	8,817	576,515	(1)	(1)
SOLUBLES	TONS	(1)	(1)	2,836	164,116	-	-
PADDLEFISH, SMOKED	POUNDS	(1)	(1)	-	-	-	-
POLLOCK FILLETS, FRESH	DO	(1)	(1)	-	-	-	-
SABLEFISH, SMOKED	DO	1,905,000	1,412,250	(1)	(1)	-	-
SALMON:							
CAVIAR, CANNED	STANDARD CASES	5,952	549,329	-	-	-	-
SMOKED	POUNDS	7,359,250	11,989,007	(1)	(1)	(1)	(1)
SHAD:							
FILLETS, FRESH	DO	-	-	-	-	(1)	(1)
SMOKED	DO	35,000	15,000	-	-	-	-
STURGEON:							
CAVIAR, CANNED	STANDARD CASES	(1)	(1)	-	-	-	-
SMOKED	POUNDS	1,350,500	2,524,500	(1)	(1)	-	-
TUNA:							
SPECIALTIES:							
FROZEN (WITH NOODLES AND PIES)	POUNDS	(1)	(1)	-	-	-	-
CANNED (WITH NOODLES)	STANDARD CASES	-	-	-	-	(1)	(1)
WHITEFISH:							
CANNED:							
FISH	DO	-	-	(1)	(1)	-	-
CAVIAR	DO	1,571	120,604	-	-	-	-
SMOKED	POUNDS	2,113,500	1,816,000	(1)	(1)	-	-
WHITING, SMOKED	DO	230,000	88,000	170,000	68,250	-	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		NEW YORK		NEW JERSEY		PENNSYLVANIA AND DELAWARE	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CRABS, BLUE:							
SPECIALTIES:							
FROZEN (CAKES, CUTLETS, DEVILED, ETC.)	POUNDS	(1)	(1)	258,762	$170,409	3,048,623	$1,925,974
CANNED (NEWBURG AND BISQUE)	STANDARD CASES	-	-	(1)	(1)	(1)	(1)
MEAL AND SCRAP	TONS	-	-	(1)	(1)	-	-
LOBSTERS, NORTHERN:							
SPECIALTIES:							
FROZEN (LOBSTERETTES)	POUNDS	-	-	-	-	(1)	(1)
CANNED (BISQUE, SAUCE, NEWBURG, ETC.)	STANDARD CASES	-	-	(1)	(1)	(1)	(1)
SHRIMP:							
FROZEN:							
MEAT, PEELED AND DEVEINED, RAW AND COOKED	POUNDS	(1)	(1)	(1)	(1)	-	-
BREADED, RAW AND COOKED	DO	(1)	(1)	377,894	340,947	(1)	(1)
SPECIALTIES:							
FRESH COCKTAILS (REFRIGERATED)	DO	(1)	(1)	(1)	(1)	(1)	(1)
FROZEN (DINNERS, CREOLE, STUFFED, ETC.)	DO	474,151	$303,905	(1)	(1)	-	-
CANNED (BISQUE, CHOWDER, SAUCE, ETC.)	STANDARD CASES	-	-	(1)	(1)	(1)	(1)
CLAMS, SURF AND HARD:							
FRESH AND FROZEN:							
SHUCKED	GALLONS	646,122	1,325,809	722,896	1,452,210	(1)	(1)
SPECIALTIES (CAKES, TANGS, BREADED, ETC.)	POUNDS	815,492	285,611	40,566	34,261	(1)	(1)
CANNED:							
WHOLE AND MINCED	STANDARD CASES	(1)	(1)	342,573	3,921,236	(1)	(1)
CHOWDER AND JUICE	DO	(1)	(1)	675,714	4,426,687	240,635	1,453,269
SPECIALTIES (SAUCE, BISQUE, AND SOFT IN SHELL)	DO	(1)	(1)	(1)	(1)	32,724	643,551
CONCH MEAT:							
FROZEN	POUNDS	(1)	(1)	-	-	-	-
CANNED	STANDARD CASES	(1)	(1)	(1)	(1)	(1)	(1)
MUSSELS, SEA:							
SPECIALTIES:							
FRESH AND FROZEN (IN HOT SAUCE)	POUNDS	-	-	(1)	(1)	-	-
CANNED (WHOLE AND BISQUE)	STANDARD CASES	(1)	(1)	(1)	(1)	-	-
MUSSEL SHELL BUTTONS	GROSS	-	-	-	-	(1)	(1)
OYSTERS:							
FRESH AND FROZEN:							
SHUCKED	GALLONS	(1)	(1)	146,141	1,680,623	53,671	611,638
BREADED	POUNDS	-	-	363,337	390,209	(1)	(1)
SPECIALTIES:							
FROZEN (PIES AND STEW)	DO	-	-	-	-	(1)	(1)
CANNED (BISQUE AND STEW)	STANDARD CASES	-	-	(1)	(1)	(1)	(1)
SHELL GRIT AND LIME	TONS	-	-	(1)	(1)	(1)	(1)
SCALLOPS:							
BAY, SHUCKED	GALLONS	76,344	801,612	40,696	366,264	-	-
SEA, BREADED FROZEN, RAW AND COOKED	POUNDS	(1)	(1)	267,280	164,104	(1)	(1)
SPECIALTIES FROZEN (DINNERS, ETC.)	DO	(1)	(1)	-	-	-	-
SQUID:							
FROZEN	DO	(1)	(1)	-	-	-	-
SPECIALTIES (IN TOMATO SAUCE)	DO	(1)	(1)	-	-	-	-
CANNED	STANDARD CASES	(1)	(1)	(1)	(1)	-	-
TURTLE:							
STEAK, RAW FROZEN	POUNDS	-	-	(1)	(1)	-	-
CANNED:							
MEAT	STANDARD CASES	-	-	(1)	(1)	-	-
SPECIALTIES (SOUP)	DO	-	-	(1)	(1)	(1)	(1)
OIL	1,000 POUNDS	-	-	(1)	(1)	-	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		NEW YORK		NEW JERSEY		PENNSYLVANIA AND DELAWARE	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
UNCLASSIFIED:							
FRESH AND FROZEN, PACKAGED							
FISH:							
PORTIONS:							
RAW:							
NOT BREADED . . .	POUNDS	(1)	(1)	(1)	(1)	(1)	(1)
BREADED	DO	(1)	(1)	(1)	(1)	(1)	(1)
BREADED AND COOKED.	DO	(1)	(1)	(1)	(1)	5,838,443	$2,217,666
STICKS:							
RAW	DO	(1)	(1)	(1)	(1)	(1)	(1)
COOKED.	DO	(1)	(1)	(1)	(1)	(1)	(1)
OTHER FISH AND SHELLFISH	DO	7,699,693	$4,043,266	8,540,129	$7,193,335	16,420,350	7,631,082
CANNED:							
GEFILTEFISH	STANDARD CASES	(1)	(1)	229,798	3,844,732	-	-
ANIMAL FOOD	DO	-	-	(1)	(1)	64,478	235,190
OTHER	DO	286,200	4,120,334	61,530	933,183	207,710	2,513,714
CURED	POUNDS	790,050	367,730	1,475,700	1,510,355	585,000	415,000
INDUSTRIAL.	-	-	2,324,480	-	1,142,691	-	767,549
TOTAL	-	-	38,624,526	-	29,076,168	-	18,908,530

1/ INCLUDED IN UNCLASSIFIED ITEMS.

NOTE:--SOME OF THE ABOVE PRODUCTS MAY HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE CATCH WITHIN THE STATE.

SUMMARY OF MANUFACTURED PRODUCTS, 1964

(VALUE IN THOUSANDS OF DOLLARS)

ITEM		QUANTITY	VALUE
PACKAGED PRODUCTS, FRESH AND FROZEN:			
NOT BREADED:			
FISH.	1,000 POUNDS	8,773	4,493
SHELLFISH	DO	15,955	6,808
BREADED:			
FISH.	DO	19,982	7,824
SHELLFISH	DO	4,138	2,853
SPECIALTIES	DO	18,485	12,934
CANNED.	1,000 STD. CASES	2,149	22,762
CURED:			
SALTED (INCLUDES REFRIGERATED).	1,000 POUNDS	2,125	1,116
SMOKED.	DO	18,110	22,173
INDUSTRIAL.	-	-	5,646
TOTAL	-	-	86,609

VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1964

(THOUSANDS OF DOLLARS)

STATE	VALUE
NEW YORK.	38,625
NEW JERSEY.	29,076
PENNSYLVANIA.	14,331
DELAWARE.	4,577
TOTAL.	86,609

WHOLESALING AND MANUFACTURING, 1964

ITEM	NEW YORK	NEW JERSEY	PENNSYLVANIA	DELAWARE	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING:					
ESTABLISHMENTS.	303	112	48	21	484
PERSONS ENGAGED:					
AVERAGE FOR SEASON.	3,358	2,383	1,190	505	7,436
AVERAGE FOR YEAR.	3,164	1,883	878	310	6,235

MIDDLE ATLANTIC FISHERIES

NEW YORK

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	PURSE SEINES		OTTER TRAWLS		POUND NETS, FISH
		MENHADEN	TUNA	FISH	LOBSTER	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	5	195	12	594	28	27
ON BOATS AND SHORE:						
REGULAR	67	-	-	14	-	22
CASUAL	36	-	-	3	-	14
TOTAL	108	195	12	611	28	63
VESSELS, MOTOR	2	12	1	193	7	7
GROSS TONNAGE	22	2,845	387	8,115	591	76
BOATS:						
MOTOR	39	23	1	8	-	16
OTHER	3	-	2	-	-	11
GEAR:						
NUMBER	39	12	1	201	7	107
LENGTH, YARDS	10,950	5,060	940	-	-	-
YARDS AT MOUTH	-	-	-	4,802	202	-

ITEM	FYKE AND HOOP NETS, FISH	POTS AND TRAPS				GILL NETS
		CONCH	EEL	FISH	LOBSTER	ANCHOR, SET OR STAKE
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	-	-	-	4	18	-
ON BOATS AND SHORE:						
REGULAR	7	-	9	2	20	9
CASUAL	22	1	14	-	30	46
TOTAL	29	1	23	6	68	55
VESSELS, MOTOR	-	-	-	2	9	-
GROSS TONNAGE	-	-	-	14	115	-
BOATS, MOTOR	20	1	16	1	41	39
GEAR:						
NUMBER	87	50	682	1,950	6,350	59
SQUARE YARDS	-	-	-	-	-	75,148

ITEM	GILL NETS - CONTINUED		LINES		HARPOONS, SWORDFISH	SPEARS
	DRIFT, SHAD	RUNAROUND	HAND	LONG OR SET WITH HOOKS		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	-	4	-	25	18	-
ON BOATS AND SHORE:						
REGULAR	-	14	125	24	-	1
CASUAL	70	1	685	15	-	17
TOTAL	70	19	810	64	18	18
VESSELS, MOTOR	-	2	-	9	5	-
GROSS TONNAGE	-	17	-	174	152	-
BOATS:						
MOTOR	35	8	435	21	1	18
OTHER	-	-	50	-	-	-
GEAR:						
NUMBER	35	10	810	58	5	18
SQUARE YARDS	103,484	16,000	-	-	-	-
HOOKS OR BAITS	-	-	1,000	49,595	-	-

ITEM	DREDGES			TONGS		RAKES	TOTAL, EXCLUSIVE OF DUPLICATION
	CLAM	OYSTER, COMMON	SCALLOP	OYSTER	OTHER		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:							
ON VESSELS	86	35	93	-	-	-	1,054
ON BOATS AND SHORE:							
REGULAR	3	2	319	15	706	604	1,338
CASUAL	-	-	530	-	1,161	1,025	2,934
TOTAL	89	37	942	15	1,867	1,629	5,326
VESSELS, MOTOR	34	10	10	-	-	-	272
GROSS TONNAGE	900	394	1,209	-	-	-	13,903
BOATS:							
MOTOR	1	1	524	15	1,136	1,032	2,520
OTHER	-	-	-	-	20	25	111
GEAR:							
NUMBER	37	20	1,592	15	1,867	1,629	-
YARDS AT MOUTH	28	31	1,642	-	-	-	-

NEW YORK - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		PURSE SEINES			
			MENHADEN		TUNA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	12,000	$502	-	-	-	-
BLUEFISH	122,400	21,702	-	-	90,000	$5,700
CARP	3,100	155	-	-	-	-
CATFISH	400	40	-	-	-	-
MENHADEN	-	-	41,586,900	$499,950	-	-
SCUP OR PORGY	496,300	46,112	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY	3,100	657	-	-	-	-
SHAD	200	20	-	-	-	-
SILVERSIDES	157,400	15,865	-	-	-	-
STRIPED BASS	687,100	98,524	-	-	-	-
TAUTOG	6,000	223	-	-	-	-
WHITE PERCH	114,900	13,787	-	-	-	-
UNCLASSIFIED, FOR FOOD	17,200	1,720	-	-	-	-
TOTAL	1,620,100	199,307	41,586,900	499,950	90,000	5,700

SPECIES	OTTER TRAWLS				POUND NETS, FISH	
	FISH		LOBSTER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANGLERFISH	25,900	$981	-	-	1,000	$40
BLUEFISH	20,300	3,615	-	-	137,500	24,375
BONITO	-	-	-	-	3,600	634
BUTTERFISH	968,200	114,828	-	-	98,400	11,633
COD	258,400	36,131	-	-	-	-
EELS:						
COMMON	-	-	-	-	39,800	6,038
CONGER	2,000	41	-	-	-	-
FLOUNDERS:						
BLACKBACK	1,379,100	70,871	-	-	32,500	1,669
FLUKE	1,812,800	435,603	-	-	16,500	3,965
GRAY SOLE	12,400	1,757	-	-	-	-
YELLOWTAIL	3,512,900	230,198	-	-	-	-
HADDOCK	47,000	5,686	-	-	-	-
HAKE:						
RED	665,800	17,036	-	-	200	5
WHITE	1,600	54	-	-	-	-
HERRING, SEA	8,500	285	-	-	146,500	2,238
KING WHITING OR "KINGFISH"	4,200	544	-	-	7,400	955
MACKEREL	59,000	7,720	-	-	42,300	5,533
MENHADEN	-	-	-	-	812,800	15,776
POLLOCK	2,000	152	-	-	-	-
SCUP OR PORGY	7,256,000	681,984	-	-	584,500	54,895
SEA BASS	306,600	58,678	-	-	1,600	306
SEA ROBIN	-	-	-	-	25,000	500
SEA TROUT OR WEAKFISH, GRAY	38,000	8,053	-	-	14,300	3,030
SHAD	-	-	-	-	62,500	6,399
SHARKS:						
GRAYFISH	40,800	1,903	-	-	28,600	1,334
UNCLASSIFIED	-	-	-	-	2,300	115
SKATES	14,300	516	-	-	-	-
STRIPED BASS	193,300	27,715	-	-	17,300	2,480
STURGEON	8,700	1,782	-	-	-	-
SWELLFISH	72,100	3,031	-	-	477,800	20,122
TAUTOG	-	-	-	-	12,300	458
TILEFISH	82,100	7,728	-	-	-	-
TUNA:						
BLUEFIN	-	-	-	-	3,000	250
LITTLE	-	-	-	-	2,200	130
WHITE PERCH	-	-	-	-	16,900	2,028
WHITING	3,122,400	159,283	-	-	800	40
UNCLASSIFIED:						
FOR FOOD	259,000	24,350	-	-	45,800	4,580
BAIT, REDUCTION, AND ANIMAL FOOD	117,692,700	883,451	-	-	220,000	2,200
LOBSTERS, NORTHERN	67,500	32,752	232,000	$112,380	-	-
CONCHS	14,200	2,375	-	-	-	-
SQUID	989,900	72,743	-	-	17,200	1,265
TOTAL	138,937,700	2,891,846	232,000	112,380	2,870,600	172,993

(CONTINUED ON NEXT PAGE)

NEW YORK - CATCH BY GEAR, 1964 - Continued

SPECIES	FYKE AND HOOP NETS, FISH		POTS AND TRAPS			
			CONCH		EEL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	23,400	$936	-	-	-	-
CARP	1,700	85	-	-	-	-
CATFISH	2,500	345	-	-	-	-
EELS, COMMON	3,500	530	-	-	50,400	$7,541
FLOUNDERS, BLACKBACK	27,200	1,398	-	-	-	-
SUCKERS	400	55	-	-	-	-
SUNFISH	200	40	-	-	-	-
TOMCOD	2,500	750	-	-	-	-
WHITE PERCH	1,800	195	-	-	-	-
YELLOW PERCH	400	60	-	-	-	-
CONCHS	-	-	11,200	$2,065	-	-
TOTAL	63,600	4,394	11,200	2,065	50,400	7,541

SPECIES	POTS AND TRAPS - CONTINUED				GILL NETS	
	FISH		LOBSTER		ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	-	-	1,600	$58
BLUEFISH	-	-	-	-	51,600	9,146
CARP	-	-	-	-	900	45
CATFISH	-	-	-	-	100	12
EELS, CONGER	900	$18	-	-	-	-
SEA BASS	182,400	34,903	7,100	$1,360	-	-
SHAD	-	-	-	-	45,300	9,277
STRIPED BASS	-	-	-	-	27,600	2,043
STURGEON	-	-	-	-	3,100	568
WHITE PERCH	-	-	-	-	3,800	385
UNCLASSIFIED, FOR FOOD	-	-	-	-	5,800	580
LOBSTERS, NORTHERN	-	-	247,100	160,615	-	-
TOTAL	183,300	34,921	254,200	161,975	139,800	22,114

SPECIES	GILL NETS - CONTINUED				LINES	
	DRIFT, SHAD		RUNAROUND		HAND	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	-	-	114,100	$20,229	139,100	$24,659
BONITO	-	-	-	-	2,000	350
CARP	500	$23	-	-	-	-
COD	-	-	-	-	13,000	1,818
MACKEREL	-	-	-	-	62,700	8,207
MENHADEN	-	-	25,000	500	-	-
SCUP OR PORGY	-	-	-	-	7,000	657
SEA BASS	-	-	-	-	3,000	574
SEA TROUT OR WEAKFISH, GRAY	-	-	500	105	-	-
SHAD	32,900	7,716	-	-	-	-
STRIPED BASS	1,900	162	25,800	3,699	42,000	6,021
STURGEON	300	60	-	-	-	-
TAUTOG	-	-	-	-	1,800	67
TUNA:						
BLUEFIN	-	-	-	-	5,200	445
LITTLE	-	-	-	-	500	30
UNCLASSIFIED, FOR FOOD	-	-	10,900	1,090	5,000	500
TOTAL	35,600	7,961	176,300	25,623	281,300	43,328

SPECIES	LINES - CONTINUED		HARPOONS		SPEARS	
	LONG OR SET WITH HOOKS					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH	2,200	$305	-	-	-	-
COD	245,100	34,271	-	-	-	-
EELS, COMMON	-	-	-	-	80,100	$12,146
SHARKS, GRAYFISH	3,500	163	-	-	-	-

(CONTINUED ON NEXT PAGE)

NEW YORK - CATCH BY GEAR, 1964 - Continued

SPECIES	LINES - CONTINUED		HARPOONS		SPEARS	
	LONG OR SET WITH HOOKS					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SWORDFISH	154,700	$52,205	16,200	$5,438	-	-
TUNA, BLUEFIN	12,000	1,025	-	-	-	-
UNCLASSIFIED, FOR FOOD. . . .	5,000	500	-	-	-	-
TOTAL	422,500	88,469	16,200	5,438	80,100	$12,146

SPECIES	DREDGES			
	CLAM		OYSTER, COMMON	
	POUNDS	VALUE	POUNDS	VALUE
CLAMS:				
HARD, PUBLIC.	2,446,100	$1,826,904	-	-
SURF.	1,110,100	99,357	-	-
CONCHS.	15,500	3,549	-	-
OYSTERS, MARKET:				
PUBLIC:				
SPRING.	-	-	14,200	$21,025
FALL.	-	-	25,200	37,625
PRIVATE:				
SPRING.	-	-	77,300	113,421
FALL.	-	-	86,700	131,514
TOTAL	3,571,700	1,929,810	203,400	303,585

SPECIES	DREDGES - CONTINUED		TONGS	
	SCALLOP		OYSTER	
	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS:				
BLACKBACK	1,800	$93	-	-
DAB	900	45	-	-
FLUKE	24,500	5,880	-	-
GRAY SOLE	2,200	315	-	-
YELLOWTAIL.	48,900	3,205	-	-
OYSTERS, MARKET, PUBLIC, FALL	-	-	10,100	$11,452
SCALLOPS:				
BAY	687,100	731,474	-	-
SEA	2,044,300	1,114,682	-	-
TOTAL	2,809,700	1,855,694	10,100	11,452

SPECIES	TONGS - CONTINUED		RAKES	
	OTHER			
	POUNDS	VALUE	POUNDS	VALUE
CLAMS:				
HARD, PUBLIC.	1,799,600	$1,408,334	1,156,600	$900,307
RAZOR	-	-	5,900	1,464
SOFT, PUBLIC.	-	-	180,800	55,677
SURF.	-	-	107,600	9,495
MUSSELS, SEA.	63,000	8,505	61,900	8,007
TOTAL	1,862,600	1,416,839	1,512,800	974,950

MIDDLE ATLANTIC FISHERIES

NEW JERSEY

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	STOP SEINES	PURSE SEINES		
			MENHADEN	TUNA	OTHER
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	-	-	459	50	146
ON BOATS AND SHORE:					
REGULAR	37	4	-	-	20
CASUAL	20	-	-	-	-
TOTAL	57	4	459	50	166
VESSELS, MOTOR	-	-	27	5	18
GROSS TONNAGE	-	-	5,528	608	312
BOATS:					
MOTOR	35	4	54	5	21
OTHER	4	-	-	-	10
GEAR:					
NUMBER	38	4	27	5	24
LENGTH, YARDS	4,178	1,600	10,540	3,600	8,425

ITEM	BEAM TRAWLS, SHRIMP	OTTER TRAWLS		WEIRS	POUND NETS, FISH
		FISH	LOBSTER		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	-	496	130	-	55
ON BOATS AND SHORE:					
REGULAR	-	27	3	-	31
CASUAL	3	-	-	6	-
TOTAL	3	523	133	6	86
VESSELS, MOTOR	-	147	33	-	13
GROSS TONNAGE	-	6,675	1,811	-	104
BOATS:					
MOTOR	3	13	1	3	7
OTHER	-	-	-	3	-
GEAR:					
NUMBER	3	160	34	5	46
YARDS AT MOUTH	9	3,845	929	-	-

ITEM	FYKE AND HOOP NETS, FISH	POTS AND TRAPS				
		CRAB	EEL	FISH	LOBSTER	TURTLE
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	1	7	-	22	15	-
ON BOATS AND SHORE:						
REGULAR	18	40	22	29	9	-
CASUAL	-	3	8	-	-	8
TOTAL	19	50	30	51	24	8
VESSELS, MOTOR	1	5	-	11	8	-
GROSS TONNAGE	8	57	-	106	82	-
BOATS:						
MOTOR	18	43	28	20	7	8
OTHER	-	-	3	-	-	-
GEAR, NUMBER	49	4,059	611	18,154	3,230	129

ITEM	GILL NETS			
	ANCHOR, SET OR STAKE	DRIFT		RUNAROUND
		SHAD	OTHER	
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS	11	2	53	10
ON BOATS AND SHORE:				
REGULAR	46	10	24	26
CASUAL	21	8	8	1
TOTAL	78	20	85	37
VESSELS, MOTOR	5	1	23	5
GROSS TONNAGE	50	14	371	36
BOATS:				
MOTOR	38	11	17	14
OTHER	1	1	-	-
GEAR:				
NUMBER	47	12	41	19
SQUARE YARDS	90,003	18,706	310,697	134,833

(CONTINUED ON NEXT PAGE)

NEW JERSEY - OPERATING UNITS BY GEAR, 1964 - Continued

ITEM	LINES			
	HAND	TROLL	LONG OR SET WITH HOOKS	TROT WITH BAITS
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS	20	10	105	-
ON BOATS AND SHORE:				
REGULAR	5	4	21	10
CASUAL	52	29	-	-
TOTAL	77	43	126	10
VESSELS, MOTOR	11	5	37	-
GROSS TONNAGE	150	52	807	158
BOATS, MOTOR	21	32	10	6
GEAR:				
NUMBER	95	60	47	6
HOOKS OR BAITS	119	60	120,000	19,000

ITEM	PUSH NETS	HARPOONS, SWORDFISH	DREDGES		
			CLAM	CRAB	MUSSEL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	-	13	191	13	2
ON BOATS AND SHORE:					
REGULAR	-	-	-	5	-
CASUAL	6	-	-	-	-
TOTAL	6	13	191	18	2
VESSELS, MOTOR	-	3	58	5	1
GROSS TONNAGE	-	158	2,981	52	13
BOATS:					
MOTOR	-	-	-	5	-
OTHER	6	-	-	-	-
GEAR:					
NUMBER	6	3	59	17	1
YARDS AT MOUTH	-	-	82	26	3

ITEM	DREDGES - CONTINUED			TONGS	
	OYSTER, COMMON	SCALLOP	OTHER	OYSTER	OTHER
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	226	95	16	-	-
ON BOATS AND SHORE:					
REGULAR	18	166	-	115	345
CASUAL	9	-	-	67	530
TOTAL	253	261	16	182	875
VESSELS, MOTOR	30	10	8	-	-
GROSS TONNAGE	917	993	168	-	-
BOATS:					
MOTOR	12	90	-	142	705
OTHER	-	-	-	-	125
GEAR:					
NUMBER	78	200	8	182	875
YARDS AT MOUTH	78	220	26	-	-

ITEM	RAKES	HOES	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS	-	-	-	1,792
ON BOATS AND SHORE:				
REGULAR	225	4	195	606
CASUAL	405	10	445	997
TOTAL	630	14	640	3,395
VESSELS, MOTOR	-	-	-	344
GROSS TONNAGE	-	-	-	18,548
BOATS:				
MOTOR	561	14	510	1,303
OTHER	45	-	37	176
GEAR, NUMBER	630	14	-	-

NEW JERSEY - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		STOP SEINES		PURSE SEINES	
					MENHADEN	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	7,200	$264	-	-	-	-
CARP	129,100	8,310	52,000	$3,640	-	-
CATFISH	37,800	3,514	-	-	-	-
FLOUNDERS, BLACKBACK	21,700	1,929	-	-	-	-
MENHADEN	-	-	-	-	54,308,400	$765,750
MULLET	42,000	8,400	-	-	-	-
SHAD	18,800	2,904	-	-	-	-
STRIPED BASS	17,400	4,416	-	-	-	-
WHITE PERCH	50,200	7,370	-	-	-	-
YELLOW PERCH	400	56	-	-	-	-
TOTAL	324,600	37,163	52,000	3,640	54,308,400	765,750

SPECIES	PURSE SEINES - CONTINUED				BEAM TRAWLS	
	TUNA		OTHER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	15,900	$2,360	47,400	$8,258	-	-
BUTTERFISH	-	-	900	44	-	-
DRUM, BLACK	-	-	23,000	690	-	-
FLOUNDERS, FLUKE	-	-	200	50	-	-
MENHADEN	-	-	1,689,800	50,695	-	-
SCUP OR PORGY	-	-	828,700	102,123	-	-
SEA TROUT OR WEAKFISH, GRAY	-	-	9,600	1,785	-	-
SHARKS, UNCLASSIFIED	-	-	200	7	-	-
STRIPED BASS	-	-	14,300	3,445	-	-
TAUTOG	-	-	500	23	-	-
TUNA, BLUEFIN	2,729,500	136,476	-	-	-	-
UNCLASSIFIED, FOR FOOD	-	-	100	4	-	-
SHRIMP	-	-	-	-	2,000	$2,000
TOTAL	2,745,400	138,836	2,614,700	167,124	2,000	2,000

SPECIES	OTTER TRAWLS				WEIRS	
	FISH		LOBSTER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	56,600	$9,901	-	-	-	-
BONITO	100	10	-	-	-	-
BUTTERFISH	883,100	101,293	104,100	$11,008	-	-
COD	13,900	1,936	-	-	-	-
DRUM, BLACK	200	8	-	-	-	-
EELS:						
COMMON	-	-	-	-	10,800	$4,320
CONGER	500	10	-	-	-	-
FLOUNDERS:						
BLACKBACK	300,000	15,475	-	-	-	-
FLUKE	3,169,000	745,110	453,800	107,978	-	-
GRAY SOLE	29,800	1,638	-	-	-	-
YELLOWTAIL	10,000	472	-	-	-	-
HADDOCK	500	35	-	-	-	-
HAKE:						
RED	593,200	18,261	-	-	-	-
WHITE	58,000	3,106	-	-	-	-
HERRING, SEA	17,200	457	-	-	-	-
KING WHITING OR "KINGFISH"	22,600	1,903	-	-	-	-
MACKEREL	47,200	7,394	-	-	-	-
MENHADEN	1,900	48	-	-	-	-
POLLOCK	1,700	107	-	-	-	-
SCUP OR PORGY	7,696,400	742,872	-	-	-	-
SEA BASS	461,600	67,401	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY	520,000	41,900	-	-	-	-
SHAD	3,800	207	-	-	-	-
SHARKS, UNCLASSIFIED	900	28	-	-	-	-
STRIPED BASS	865,200	148,644	-	-	-	-
STURGEON	6,500	1,117	-	-	-	-
SWELLFISH	99,800	3,979	-	-	-	-
SWORDFISH	100	27	-	-	-	-
TAUTOG	4,700	136	-	-	-	-
TILEFISH	33,100	2,122	33,700	2,026	-	-
WHITE PERCH	500	14	-	-	-	-
WHITING	3,265,600	153,689	-	-	-	-
UNCLASSIFIED:						
FOR FOOD	19,100	1,053	-	-	-	-
BAIT, REDUCTION, AND ANIMAL FOOD	4,201,100	31,612	-	-	-	-

(CONTINUED ON NEXT PAGE)

NEW JERSEY - CATCH BY GEAR, 1964 - Continued

SPECIES	OTTER TRAWLS				WEIRS	
	FISH		LOBSTER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRABS, BLUE, ROCK	8,300	$274	33,600	$1,137	-	-
HORSESHOE CRABS	-	-	-	-	354,000	$1,594
LOBSTERS, NORTHERN	98,700	46,840	886,800	420,500	-	-
CONCHS	32,100	4,801	-	-	-	-
SCALLOPS, SEA	900	533	-	-	-	-
SQUID	376,800	21,726	-	-	-	-
TURTLES, LOGGERHEAD	100	10	-	-	-	-
TOTAL	22,900,800	2,176,149	1,512,000	542,649	364,800	5,914

SPECIES	POUND NETS, FISH		FYKE AND HOOP NETS, FISH		POTS AND TRAPS			
					CRAB		EEL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	7,000	$280	-	-	-	-
AMBERJACK	100	$3	-	-	-	-	-	-
BLUEFISH	89,400	13,272	-	-	-	-	-	-
BUTTERFISH	195,400	20,149	-	-	-	-	-	-
DRUM, BLACK	7,400	424	-	-	-	-	-	-
EELS, COMMON	500	71	-	-	-	-	67,300	$6,742
FLOUNDERS:								
BLACKBACK	2,000	113	32,000	3,100	-	-	-	-
FLUKE	37,100	10,084	-	-	-	-	-	-
HAKE, RED	5,300	218	-	-	-	-	-	-
HERRING, SEA	283,800	5,703	-	-	-	-	-	-
KING WHITING OR "KINGFISH"	300	28	-	-	-	-	-	-
MACKEREL	800	87	-	-	-	-	-	-
MENHADEN	8,208,500	151,070	-	-	-	-	-	-
SCUP OR PORGY	19,200	1,764	-	-	-	-	-	-
SEA BASS	100	20	-	-	-	-	-	-
SEA ROBIN	43,500	651	-	-	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY	6,200	1,107	-	-	-	-	-	-
SHAD	123,600	11,744	100	20	-	-	-	-
SHARKS:								
GRAYFISH	500	15	-	-	-	-	-	-
UNCLASSIFIED	400	12	-	-	-	-	-	-
SKATES	500	9	-	-	-	-	-	-
SPANISH MACKEREL	100	9	-	-	-	-	-	-
STRIPED BASS	21,900	3,273	-	-	-	-	-	-
STURGEON	6,900	1,425	-	-	-	-	-	-
SWELLFISH	30,300	1,126	-	-	-	-	-	-
TAUTOG	5,500	183	-	-	-	-	-	-
WHITE PERCH	100	10	24,400	3,220	-	-	-	-
WHITING	500	21	-	-	-	-	-	-
UNCLASSIFIED:								
FOR FOOD	700	35	-	-	-	-	-	-
BAIT, REDUCTION, AND ANIMAL FOOD	537,300	4,029	-	-	-	-	-	-
CRABS, BLUE:								
HARD	-	-	-	-	494,600	$72,161	-	-
SOFT AND PEELER	-	-	-	-	9,600	1,919	-	-
SQUID	100	9	-	-	-	-	-	-
TURTLES, LOGGERHEAD	1,200	109	-	-	-	-	-	-
TOTAL	9,629,200	226,773	63,500	6,620	504,200	74,080	67,300	6,742

SPECIES	POTS AND TRAPS - CONTINUED						GILL NETS	
	FISH		LOBSTER		TURTLE		ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
EELS, CONGER	3,300	$68	800	$70	-	-	-	-
GRUNTS	500	28	-	-	-	-	-	-
HAKE, RED	28,700	594	-	-	-	-	-	-
KING WHITING OR "KINGFISH"	100	8	-	-	-	-	-	-
MENHADEN	-	-	-	-	-	-	500	$10
SCUP OR PORGY	6,100	510	-	-	-	-	-	-
SEA BASS	1,723,900	266,087	1,800	483	-	-	-	-
SHAD	-	-	-	-	-	-	248,800	34,509
STRIPED BASS	-	-	-	-	-	-	56,900	10,741
STURGEON	-	-	-	-	-	-	100	12
SWELLFISH	100	4	-	-	-	-	-	-
TAUTOG	25,700	528	-	-	-	-	-	-
WHITE PERCH	-	-	-	-	-	-	3,500	352
UNCLASSIFIED, FOR FOOD	3,700	93	-	-	-	-	300	15
CRABS, BLUE, ROCK	2,800	100	100	4	-	-	-	-
LOBSTERS, NORTHERN	15,800	9,457	59,300	39,504	-	-	-	-
TURTLES, SNAPPER	-	-	-	-	47,400	$5,742	-	-
TOTAL	1,810,700	277,477	62,000	40,061	47,400	5,742	310,100	45,639

(CONTINUED ON NEXT PAGE)

NEW JERSEY - CATCH BY GEAR, 1964 - Continued

SPECIES	GILL NETS - CONTINUED					
	DRIFT				RUNAROUND	
	SHAD		OTHER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	-	-	17,600	$3,208	300,700	$47,704
BONITO	-	-	-	-	3,500	717
BUTTERFISH	-	-	3,600	436	100	8
COD	-	-	300	38	-	-
DRUM, BLACK	-	-	2,300	178	-	-
HERRING, SEA	-	-	1,300	36	-	-
MACKEREL	-	-	263,400	41,064	-	-
MENHADEN	-	-	65,500	1,824	4,100	155
SCUP OR PORGY	-	-	-	-	100	13
SEA TROUT OR WEAKFISH, GRAY	400	$42	2,900	718	5,600	1,008
SHAD	34,900	4,844	-	-	-	-
SHARKS, UNCLASSIFIED	-	-	900	43	1,400	48
SPOT	-	-	100	29	-	-
STRIPED BASS	100	12	5,700	1,194	100	19
WHITING	-	-	4,400	117	-	-
UNCLASSIFIED, FOR FOOD	-	-	5,100	257	500	33
TOTAL	35,400	4,898	373,100	49,142	316,100	49,705

SPECIES	LINES					
	HAND		TROLL		LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	5,700	$846	7,700	$1,494	-	-
BONITO	200	36	2,100	213	-	-
CATFISH	3,200	320	-	-	-	-
COD	1,100	162	-	-	267,700	$42,838
EELS, CONGER	-	-	-	-	300	15
FLOUNDERS, FLUKE	400	96	-	-	-	-
HAKE, RED	200	4	-	-	500	- 23
KING WHITING OR "KINGFISH"	-	-	100	10		
MACKEREL	2,300	274	300	48	-	-
MARLIN	-	-	-	-	500	10
SCUP OR PORGY	500	44	-	-	-	-
SEA BASS	6,100	997	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY	400	72	-	-	-	-
SHARKS, UNCLASSIFIED	-	-	100	4	3,600	195
STRIPED BASS	8,800	1,497	5,200	816	-	-
SWELLFISH	700	30	-	-	-	-
SWORDFISH	-	-	-	-	302,700	102,063
TAUTOG	500	14	-	-	-	-
TUNA, BLUEFIN	-	-	-	-	28,800	2,628
WHITE PERCH	400	86	-	-	-	-
WHITING	300	9	-	-	-	-
UNCLASSIFIED, FOR FOOD	100	10	-	-	-	-
TOTAL	30,900	4,497	15,500	2,585	604,100	147,772

SPECIES	LINES - CONTINUED		PUSH NETS		HARPOONS	
	TROT WITH BAITS					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SWORDFISH	-	-	-	-	4,100	$1,248
CRABS, BLUE, HARD	700	$108	-	-	-	-
SHRIMP	-	-	400	$400	-	-
TOTAL	700	108	400	400	4,100	1,248

SPECIES	DREDGES					
	CLAM		CRAB		MUSSEL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SEA BASS	1,400	$321	-	-	-	-
TAUTOG	100	4	-	-	-	-
CRABS, BLUE, HARD	-	-	71,300	$8,872	-	-
CLAMS:						
HARD, PUBLIC	19,100	6,116	-	-	-	-
SURF	36,875,200	2,503,719	-	-	-	-
CONCHS	1,800	263	-	-	-	-
MUSSELS, SEA	-	-	-	-	600	$300
TOTAL	36,897,600	2,510,423	71,300	8,872	600	$300

(CONTINUED ON NEXT PAGE)

NEW JERSEY - CATCH BY GEAR, 1964 - Continued

SPECIES	DREDGES - CONTINUED					
	OYSTER, COMMON		SCALLOP		OTHER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS:						
BLACKBACK	-	-	800	$30	700	$34
FLUKE	-	-	2,600	490	7,400	1,687
YELLOWTAIL	-	-	700	35	-	-
UNCLASSIFIED, FOR FOOD	-	-	400	19	-	-
CRABS, BLUE, HARD	-	-	-	-	2,900	346
CLAMS, HARD, PRIVATE	2,800	$1,120	-	-	-	-
CONCHS	-	-	-	-	157,000	34,012
OYSTERS, MARKET, PRIVATE:						
SPRING	10,200	13,843	-	-	-	-
FALL	990,000	911,461	-	-	-	-
SCALLOPS:						
BAY	-	-	376,300	154,911	-	-
SEA	-	-	139,400	79,223	-	-
TOTAL	1,003,000	926,424	520,200	234,708	168,000	36,079

SPECIES	TONGS				RAKES	
	OYSTER		OTHER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS, HARD, PUBLIC	-	-	734,100	$318,587	561,900	$243,987
OYSTERS, MARKET:						
PUBLIC:						
SPRING	5,000	$5,663	-	-	-	-
FALL	87,100	86,048	-	-	-	-
PRIVATE:						
SPRING	3,300	4,455	-	-	-	-
FALL	2,100	2,940	-	-	-	-
TERRAPIN	-	-	-	-	3,900	1,365
TURTLES:						
SNAPPER	-	-	-	-	5,200	624
UNCLASSIFIED	-	-	-	-	2,000	100
TOTAL	97,500	99,106	734,100	318,587	573,000	246,076

SPECIES	HOES		BY HAND	
	POUNDS	VALUE	POUNDS	VALUE
CLAMS:				
HARD, PUBLIC	-	-	576,100	$250,359
SOFT, PUBLIC	12,800	$5,323	8,700	3,642
TOTAL	12,800	5,323	584,800	254,001

MIDDLE ATLANTIC FISHERIES

DELAWARE

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	PURSE SEINES, MENHADEN	OTTER TRAWLS, FISH	FYKE AND HOOP NETS	
				FISH	TURTLE
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	-	323	6	-	-
ON BOATS AND SHORE:					
REGULAR	-	-	2	8	-
CASUAL.	9	-	-	34	4
TOTAL	9	323	8	42	4
VESSELS, MOTOR.	-	19	3	-	-
GROSS TONNAGE	-	3,816	78	-	-
BOATS:					
MOTOR	1	38	1	29	3
OTHER	2	-	-	-	-
GEAR:					
NUMBER.	1	19	4	69	72
LENGTH, YARDS	550	7,600	-	-	-
YARDS AT MOUTH.	-	-	86	-	-

ITEM	POTS AND TRAPS		GILL NETS			LINES, LONG OR SET WITH HOOKS
	CRAB	EEL	ANCHOR, SET OR STAKE	DRIFT		
				SHAD	OTHER	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	-	-	-	-	-	4
ON BOATS AND SHORE:						
REGULAR	18	2	24	-	-	-
CASUAL.	8	1	50	12	2	-
TOTAL	26	3	74	12	2	4
VESSELS, MOTOR.	-	-	-	-	-	2
GROSS TONNAGE	-	-	-	-	-	24
BOATS, MOTOR.	16	2	38	10	1	-
GEAR:						
NUMBER.	2,015	70	38	10	1	3
SQUARE YARDS.	-	-	63,180	5,450	3,600	-
HOOKS OR BAITS.	-	-	-	-	-	6,900

ITEM	DREDGES			TONGS	RAKES	TOTAL, EXCLUSIVE OF DUPLICATION
	CLAM	CRAB	OYSTER, COMMON			
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	28	12	14	-	-	365
ON BOATS AND SHORE:						
REGULAR	-	-	4	25	15	67
CASUAL.	-	-	-	20	105	199
TOTAL	28	12	18	45	120	631
VESSELS, MOTOR.	9	5	4	-	-	34
GROSS TONNAGE	338	147	110	-	-	4,246
BOATS:						
MOTOR	-	-	2	30	85	198
OTHER	-	-	-	10	-	12
GEAR:						
NUMBER.	17	7	12	45	120	-
YARDS AT MOUTH.	24	16	18	-	-	-

DELAWARE - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		PURSE SEINES, MENHADEN		OTTER TRAWLS, FISH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUTTERFISH	-	-	-	-	3,500	$450
FLOUNDERS, FLUKE	-	-	-	-	13,900	2,985
KING WHITING OR "KINGFISH" .	-	-	-	-	4,900	400
MENHADEN	-	-	32,554,000	$378,494	-	-
SCUP OR PORGY.	-	-	-	-	600	15
SEA TROUT OR WEAKFISH, GRAY.	15,000	$2,250	-	-	95,800	8,355
WHITE PERCH.	-	-	-	-	4,000	240
TOTAL.	15,000	2,250	32,554,000	378,494	122,700	12,445

SPECIES	FYKE AND HOOP NETS				POTS AND TRAPS			
	FISH		TURTLE		CRAB		EEL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH.	500	$50	-	-	-	-	-	-
EELS, COMMON	-	-	-	-	-	-	12,000	$1,920
FLOUNDERS, BLACKBACK	48,000	2,880	-	-	-	-	-	-
HERRING, SEA	11,200	560	-	-	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY.	1,000	200	-	-	-	-	-	-
SWELLFISH.	4,000	80	-	-	-	-	-	-
WHITE PERCH.	5,000	850	-	-	-	-	-	-
CRABS, BLUE:								
HARD	-	-	-	-	273,000	$30,516	-	-
SOFT AND PEELER.	-	-	-	-	2,300	950	-	-
TURTLES, SNAPPER	-	-	5,200	$544	-	-	-	-
TOTAL.	69,700	4,620	5,200	544	275,300	31,466	12,000	1,920

SPECIES	GILL NETS						LINES, LONG OR SET WITH HOOKS	
	ANCHOR, SET OR STAKE		DRIFT					
			SHAD		OTHER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CARP	8,000	$800	-	-	-	-	-	-
COD.	-	-	-	-	-	-	53,300	$6,396
FLOUNDERS, FLUKE	2,500	700	-	-	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY.	15,700	3,140	-	-	-	-	-	-
SHAD	138,100	15,932	12,200	$2,786	-	-	-	-
STRIPED BASS	31,000	5,954	-	-	-	-	-	-
STURGEON	-	-	-	-	2,700	$540	-	-
WHITE PERCH.	18,600	2,412	-	-	-	-	-	-
TOTAL.	213,900	28,938	12,200	2,786	2,700	540	53,300	6,396

SPECIES	DREDGES					
	CLAM		CRAB		OYSTER, COMMON	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRABS, BLUE, HARD.	-	-	40,300	$1,814	-	-
CLAMS, HARD:						
PUBLIC	131,800	$53,544	-	-	-	-
PRIVATE.	122,000	49,575	-	-	-	-
OYSTERS, MARKET:						
PUBLIC, FALL	-	-	-	-	9,700	$6,000
PRIVATE:						
SPRING	-	-	-	-	14,500	8,344
FALL	-	-	-	-	20,500	12,640
TOTAL.	253,800	103,119	40,300	1,814	44,700	26,984

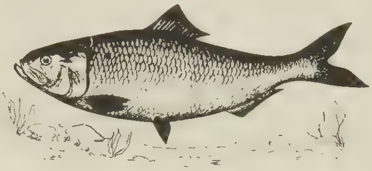
SPECIES	TONGS		RAKES	
	POUNDS	VALUE	POUNDS	VALUE
CLAMS, HARD, PUBLIC.	78,400	$36,765	85,800	$44,910
TOTAL.	78,400	36,765	85,800	44,910

HUDSON RIVER SHAD FISHERY

The Hudson River run of shad yielded a commercial catch of 53,523 fish weighing 181,865 pounds, valued at $37,713 to the fishermen. Compared with the previous year, this was a decline of 48 percent in poundage and 54 percent in value. This was the lowest harvest since 1925 when 124,334 pounds were taken and far below the 1944 record of 3.8 million pounds. Fishermen received an average price of 21 cents per pound for shad during 1964, compared with 24 cents the previous year.

It appears that there were fewer fish in the run, however, other factors, such as reduced fishing effort and less demand for shad, contributed to the decline. This is an old fishery, and most of the regular fishermen are not being replaced as they retire.

Statistics on the 1964 operating units and catch of shad in the Hudson River by New York and New Jersey fishermen are included in the operating unit and catch data for those States.



SHAD

SUMMARY OF OPERATING UNITS AND CATCH, 1964

ITEM	NEW YORK			NEW JERSEY			TOTAL		
OPERATING UNITS	NUMBER			NUMBER			NUMBER		
FISHERMEN, ON BOATS AND SHORE:									
REGULAR.	4			5			9		
CASUAL	96			20			116		
TOTAL	100			25			125		
BOATS:									
MOTOR.	54			10			64		
OTHER.				2			2		
GEAR, GILL NETS:									
ANCHOR SET OR STAKE	23			7			30		
SQUARE YARDS . .	57,423			17,132			74,555		
DRIFT.	35			-			35		
SQUARE YARDS . .	103,484			-			103,484		
CATCH	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE
SHAD, GILL NETS:									
ANCHOR, SET OR STAKE	14,390	45,244	$9,277	28,455	103,781	$20,720	42,845	149,025	$29,997
DRIFT.	10,678	32,840	7,716	-	-	-	10,678	32,840	7,716
TOTAL	25,068	78,084	16,993	28,455	103,781	20,720	53,523	181,865	37,713

NOTE:--THESE DATA REFLECT THE CATCH OF SHAD IN THE HUDSON RIVER BETWEEN WEEHAWKEN, N. J. AND ALBANY, N. Y.

SECTION 4 - CHESAPEAKE FISHERIES

The commercial landings of fish and shellfish in Maryland and Virginia were 536.6 million pounds valued at $35.9 million to fishermen. Compared with 1963, this was an increase of 106.4 million pounds (25 percent) and $6.1 million (21 percent). Landings of menhaden, hard blue crabs, oysters, industrial fish, swellfish, spot, shad, scup, and soft clams were up; whereas butterfish, sea bass, fluke, striped bass, and white perch were down.

Landings by States were: Virginia, 465.8 million pounds (87 percent), and Maryland, 70.8 million pounds (13 percent). The value was apportioned: Virginia $24.2 million (67 percent), and Maryland $11.7 million (33 percent). The difference in poundage was largely due to the Virginia menhaden fishery, which contributed 71 percent of the State's catch.

Fishermen and vessels. There were 18,554 fishermen in the fisheries of the Chesapeake area during 1964--770 more than in 1963. Craft operating were 1,245 vessels of 5 net tons or over, 9,947 motor boats, and 996 other boats--up 531 from the 1963 total. Greater activity in the oyster fishery was primarily responsible for the increase.

Processing. Chesapeake States manufactured fishery products were valued at $65.3 million--$7.2 million greater than in 1963. Of the total value, Maryland accounted for 54 percent and Virginia, 46 percent. The increase was due mostly to larger packs and higher values of shucked oysters and crab meat and a sharp gain in menhaden products. There were 622 wholesale establishments, a drop of 33 from 1963.

Weather. The winter of 1964 was milder than in the previous year, with less icing of bays and rivers. Continued low rainfall and the increase of salinity has exposed more oyster grounds to the MSX parasite.

Labor. Automation is slowly making advances in the fishing industry. Operators of menhaden purse-seine vessels have turned to power blocks for hauling, thereby cutting crews by one-third. Suction fish unloaders have reduced the number of dock workers. The oyster and crab meat industries are still relatively untouched by automation. Considerable attention was given by the Bureau and members of the industry to the development of crab picking machines.

Legislation. No important fishery laws were enacted by either State. A difficulty arose from lack of enabling legislation providing for regulation of the Potomac River soft clam fishery. The courts ruled that the Maryland clam law no longer applied to the river and that the Potomac River Fisheries Commission was not given powers to regulate clamming by its charter. Taking of soft clams in the river proceeded unrestricted through the last 10 months of the year. The Department of Tidewater Fisheries limited the catch in Maryland waters to 40 bushels of soft clams per day per boat, and this restriction encouraged the rush of boats to the Potomac where catches of 100 bushels per day were not unusual. The Potomac River Commission placed a 20-cent-per-bushel tax on oysters taken from the river.

The Maryland State Health Department closed a number of oyster bars in the fall because of suspected pollution. Most of them had been reopened by midseason; however, the publicity accompanying the announcement adversely affected sales of Maryland oysters for the remainder of the season.

Oysters. There were 22.1 million pounds of oyster meats produced, a 21-percent increase over the 1963 record low. Virginia contributed 14.2 million pounds and Maryland, 7.9 million pounds. The oyster regulating agencies of both States and the Potomac River Fisheries Commission intensified their efforts at oyster propagation by dredging buried shell deposits from the bay and distributing them to other areas for use in catching sets of young oysters. Some effort was made to transfer oyster spat from seed areas to growing areas.

The MSX organism, which has caused extensive mortalities in the lower Chesapeake Bay, made some advances up both the bay and some rivers due to rising salinity of the water brought about by low rainfall which caused a decline in fresh-water runoff. Some areas previously affected were making a slow comeback apparently due to an increase in the stocks of MSX-resistant oysters.

The Virginia seed oyster industry harvested only 720,000 State bushels, (937,440 U. S. standard bushels) valued at about $1.1 million--down 25 percent in volume and 21 percent in value from 1963. Until recent years, 2 million bushels per season were considered normal.

Blue crabs. Hard shell blue crab production (74.1 million pounds) increased 18 percent, and soft and peeler (4.5 million pounds) was up 47 percent. Catches were light during the spring and early summer but improved in the late summer and fall, overcoming the early shortage. As in 1963, a shortage of bait hampered crabbers throughout the season.

Clams. Soft clam landings (8.2 million pounds of meats) were a 19-percent increase over 1963 and a record for the area. The entire catch was from Maryland waters; grounds off Virginia were not worked in 1964. The opening of the Potomac River to unrestricted taking of soft clams was an important factor in the record catch--31 percent came from this river.

Hard clam production reached 2.8 million pounds of meats, an 8-percent increase over 1963. Virginia produced the largest amount (88 percent). Because of the higher salinity of its waters, Virginia has more extensive hard clam beds than Maryland.

Menhaden. Landings were 336.4 million pounds, an increase of 30 percent above the 1963 total. Virginia accounted for 98 percent. Purse seiners landed 301.4 million pounds while all other gear, principally pound nets, took 35.0 million pounds. The law prohibits purse seining in Maryland waters; however, several vessels that fished in Virginia waters landed their catch in Maryland. All of the Maryland landings were used for bait, while most of Virginia's were used for reduction into meal, oil, and solubles valued at $7.2 million.

Alewives. The alewife catch was 28.0 million pounds, an increase of a little over 1 percent. Virginia had 95 percent of the production. Canned, salted, and pickled products were valued at almost $1 million. The fish not required by packers were manufactured into meal, oil and solubles valued at $280,500.

Swordfish. The new longline fishery for swordfish did not grow as rapidly as hoped for, although the 635,000 pounds landed in Virginia were over three times those of 1963. The vessels fished the same grounds as before, but many landed in other areas.

Tuna. For the second year, five west coast purse seiners landed tuna in Maryland--2.8 million pounds including 197,000 pounds of skipjack and 277,000 pounds of yellowfin taken in the Pacific Ocean. A small amount of tuna, 124,000 pounds, was landed in Virginia, caught mostly in connection with the swordfish longlining operation.

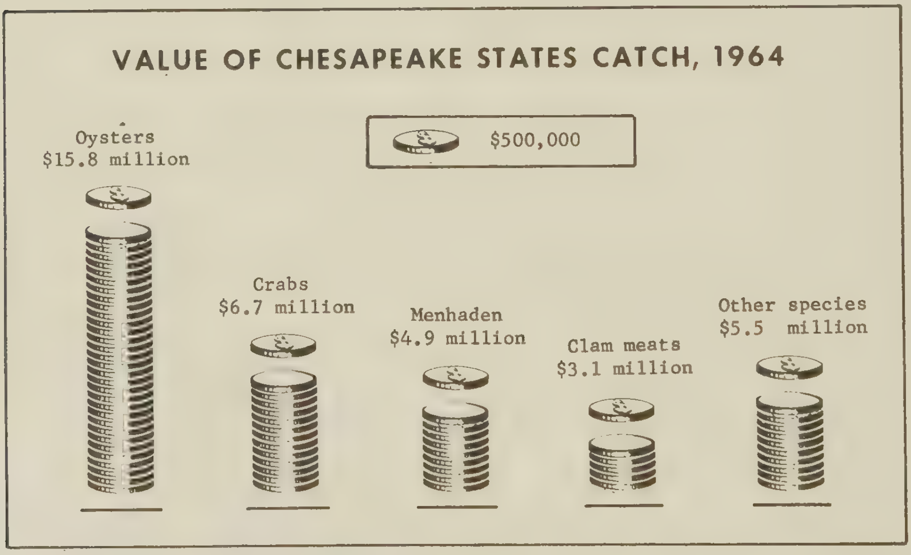
Bay finfish. The catch of striped bass, the most popular foodfish in the bay, was only 5.2 million pounds--a drop of 20 percent. This species has declined since the record catch of 1961 (7.3 million pounds), and no large year classes have appeared to replenish the stock. Swellfish were very abundant and the catch, taken largely in the spring, was 5.1 million pounds--3.0 million pounds more than in the previous year. The food market was unable to absorb the catch, and the surplus went to the reduction plants. There was hope that croakers were making a comeback after having almost disappeared in 1963--396,000 pounds were taken, more than three times the 1963 total. Nearly the entire amount was landed in Virginia.

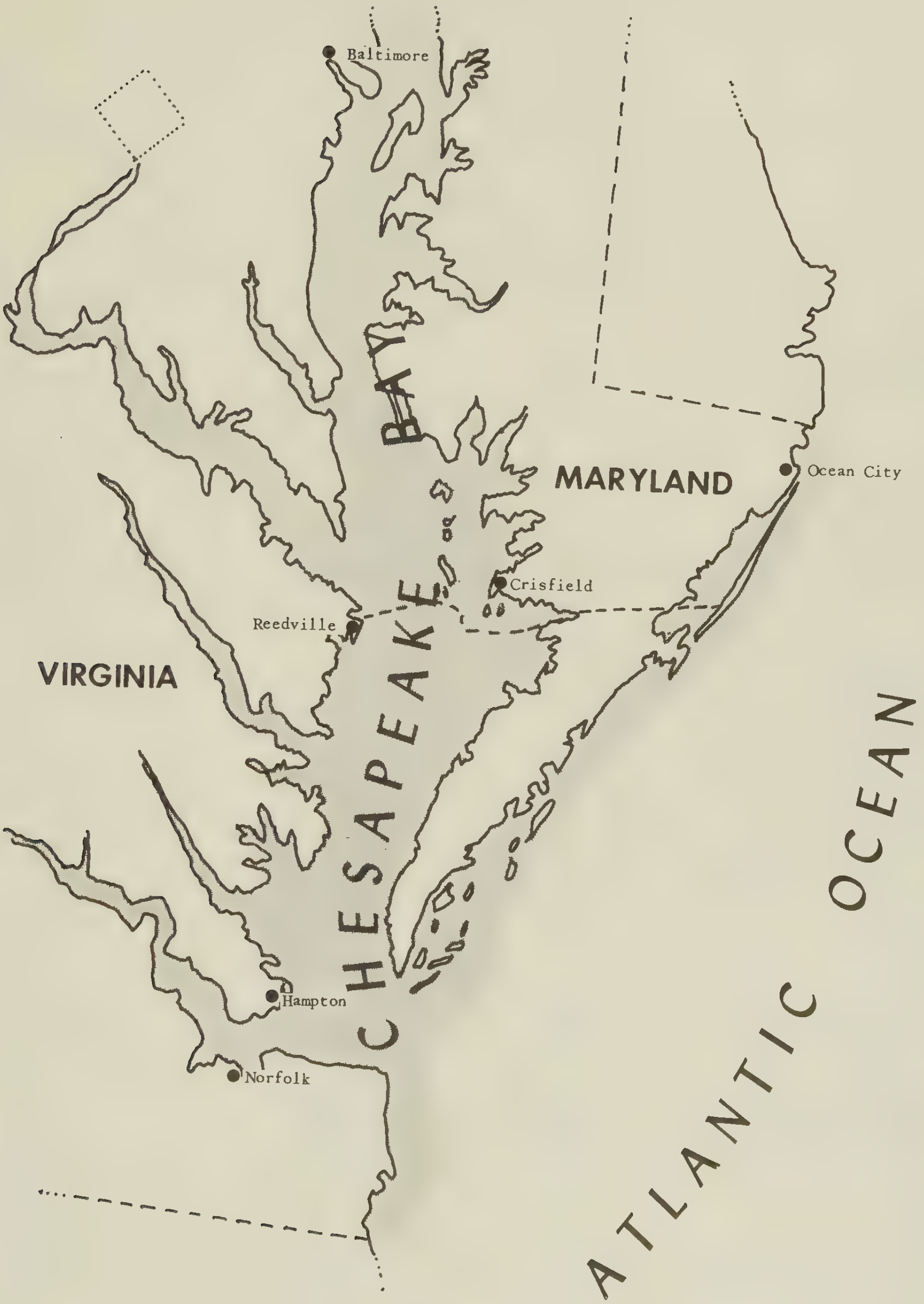
Ocean finfish. Ocean fish landed in the Chesapeake States are mostly taken by otter trawls. The leading species was scup--11.1 million pounds--a gain of 1.5 million pounds over 1963. Other ocean species with landings above 1 million pounds were fluke, seabass, and sharks.

Fresh-water fishery. The fisheries of the upper tributaries furnished carp, catfish, white and yellow perch, crappie, sunfish, and snapper turtles. The leading species is catfish, which has little variation in catch from year to year, and in 1964 was 1.8 million pounds, about a 10-percent decline from 1963. Much of the catch is shipped live out of the State. Snapper turtle demand was good all year with steadily rising prices and 254,000 pounds were landed--53 percent more than in 1963.

Other information. Condensed summary data on the operating units and catch, by States, appearing on the following pages, have been previously published in Current Fishery Statistics No. 3967. The catch of fish and shellfish in the bay and ocean areas of Maryland and Virginia is shown at the end of this section. Additional data may be found in the Maryland and Virginia monthly and annual landing bulletins published by the Branch of Fishery Statistics in cooperation with the respective States. Information on the daily, monthly, and annual production of fishery products in selected areas of these States is available in reports published by the Bureau's Fishery Market News Office at Hampton, Va.

Acknowledgments. The following organizations helped collect the data appearing in this section: Maryland Department of Chesapeake Bay Affairs, Natural Resources Institute of the University of Maryland; Virginia Commission of Fisheries, Virginia Institute of Marine Science; and Potomac River Fisheries Commission.




Baltimore
BAY
MARYLAND
Ocean City
Crisfield
Reedville
VIRGINIA
CHESAPEAKE
ATLANTIC OCEAN
Hampton
Norfolk

CHESAPEAKE STATES

CHESAPEAKE FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF CATCH, 1964

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

STATE	FISH		SHELLFISH, ETC.		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
MARYLAND	28	2	43	10	71	12
VIRGINIA	396	8	70	16	466	24
TOTAL	424	10	113	26	537	36

SUMMARY OF OPERATING UNITS, 1964

ITEM	MARYLAND	VIRGINIA	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER
FISHERMEN:			
ON VESSELS	1,257	2,707	3,898
ON BOATS AND SHORE:			
REGULAR	3,754	3,954	7,708
CASUAL	4,260	2,688	6,948
TOTAL	9,271	9,349	18,554
VESSELS:			
MOTOR	475	723	1,184
GROSS TONNAGE	6,605	21,802	27,822
SAIL	61	-	61
GROSS TONNAGE	687	-	687
TOTAL VESSELS	536	723	1,245
TOTAL GROSS TONNAGE	7,292	21,802	28,509
BOATS:			
MOTOR	5,959	3,991	9,947
OTHER	308	688	996
GEAR:			
HAUL SEINES, COMMON	115	171	286
LENGTH, YARDS	50,050	108,700	158,750
PURSE SEINES:			
MENHADEN	2	41	41
LENGTH, YARDS	750	15,513	15,513
TUNA	5	-	5
LENGTH, YARDS	4,480	-	4,480
OTTER TRAWLS, FISH	25	63	83
YARDS AT MOUTH	644	1,683	2,210
POUND NETS:			
FISH	236	921	1,157
CRAB	-	2,839	2,839
FYKE AND HOOP NETS, FISH	644	562	1,206
POTS AND TRAPS:			
CRAB	63,915	120,680	184,595
EEL	6,845	912	7,757
FISH	960	3,686	4,646
TURTLE	323	200	523
SLAT TRAPS	-	2	2
GILL NETS:			
ANCHOR, SET OR STAKE	1,545	1,353	2,898
SQUARE YARDS	1,688,435	692,409	2,380,844
DRIFT	471	639	1,108
SQUARE YARDS	768,250	581,160	1,332,910
LINES:			
HAND	660	1,249	1,909
HOOKS	660	1,249	1,909
LONG OR SET WITH HOOKS	11	77	88
HOOKS	7,350	20,521	27,871
TROT WITH BAITS	2,212	130	2,342
BAITS	821,000	79,450	900,450
DIP NETS, COMMON	160	214	374
SCRAPES	459	120	579
YARDS AT MOUTH	479	194	673
DREDGES:			
CLAM	213	36	247
YARDS AT MOUTH	214	29	241
CRAB	4	362	366
YARDS AT MOUTH	4	596	600
OYSTER, COMMON	187	444	631
YARDS AT MOUTH	213	493	706
SCALLOP	-	4	4
YARDS AT MOUTH	-	14	14
TONGS:			
OYSTER	4,593	2,528	7,121
OTHER	85	992	1,077
RAKES:			
OYSTER	-	25	25
OTHER	-	520	520

CATCH BY STATES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	MARYLAND		VIRGINIA		TOTAL	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES	1,314	26	26,640	490	27,954	516
BLUEFISH	6	1	395	54	401	55
BONITO	-	-	14	1	14	1
BUTTERFISH	33	3	1,211	95	1,244	98
CABIO	-	-	12	1	12	1
CARP	167	5	170	4	337	9
CATFISH AND BULLHEADS	392	28	1,460	101	1,852	129
COD	13	2	28	3	41	5
CRAPPIE	5	(1)	-	-	5	(1)
CROAKER	2	1	394	63	396	64
DRUM:						
BLACK	2	(1)	68	2	70	2
RED	-	-	5	(1)	5	(1)
EELS, COMMON	186	18	314	20	500	38
FLOUNDERS:						
BLACKBACK	26	1	42	2	68	3
DAB	-	-	34	1	34	1
FLUKE	557	112	1,492	277	2,049	389
YELLOWTAIL	-	-	2	(1)	2	(1)
UNCLASSIFIED	1	(1)	-	-	1	(1)
GARFISH	-	-	3	(1)	3	(1)
GIZZARD SHAD	11	(1)	75	1	86	1
HAKE:						
RED	20	(1)	8	(1)	28	(1)
WHITE	-	-	(1)	(1)	(1)	(1)
HARVESTFISH	-	-	168	17	168	17
HERRING, SEA	13	(1)	(1)	(1)	13	(1)
HICKORY SHAD	15	1	58	3	73	4
HOGCHOKER	9	(1)	-	-	9	(1)
KING MACKEREL	-	-	37	5	37	5
KING WHITING OR "KINGFISH"	15	1	61	6	76	7
MACKEREL	13	1	343	36	356	37
MENHADEN	5,706	91	330,708	4,798	336,414	4,889
MULLET	1	(1)	51	5	52	5
PIGFISH	(1)	(1)	3	(1)	3	(1)
PIKE OR PICKEREL	4	1	-	-	4	1
SCUP OR PORGY	218	12	10,929	608	11,147	620
SEA BASS	293	29	3,752	361	4,045	390
SEA ROBIN	525	5	6	(1)	531	5
SEA TROUT OR WEAKFISH:						
GRAY	172	16	1,593	161	1,765	177
SPOTTED	-	-	23	6	23	6
SHAD	890	116	2,651	326	3,541	442
SHARKS:						
GRAYFISH	27	1	1,273	21	1,300	22
UNCLASSIFIED	85	2	27	1	112	3
SKATES	6	(1)	-	-	6	(1)
SPANISH MACKEREL	-	-	33	5	33	5
SPOT	34	6	3,198	530	3,232	536
STRIPED BASS	3,300	538	1,889	301	5,189	839
STURGEON	16	2	11	2	27	4
SUCKERS	1	(1)	2	(1)	3	(1)
SUNFISH	21	1	-	-	21	1
SWELLFISH	800	25	4,347	74	5,147	99
SWORDFISH	-	-	635	218	635	218
TAUTOG	2	(1)	1	(1)	3	(1)
TILEFISH	-	-	3	(1)	3	(1)
TUNA:						
BLUEFIN	1,449	186	-	-	1,449	186
LITTLE	-	-	1	(1)	1	(1)
SKIPJACK	1,113	111	-	-	1,113	111
YELLOWFIN	277	36	-	-	277	36
UNCLASSIFIED	-	-	123	9	123	9
TOTAL TUNA	2,839	333	124	9	2,963	342
WHITE PERCH	638	79	270	19	908	98
WHITING	131	3	36	1	167	4
YELLOW PERCH	132	15	29	3	161	18
UNCLASSIFIED:						
FOR FOOD	2	(1)	41	4	43	4
BAIT, REDUCTION, AND ANIMAL FOOD	9,536	62	1,038	19	10,574	81
TOTAL FISH	28,179	1,537	395,707	8,654	423,886	10,191
SHELLFISH, ETC.						
CRABS, BLUE:						
HARD	22,540	1,609	51,572	3,385	74,112	4,994
SOFT AND PEELER	3,498	1,263	998	452	4,496	1,715
TOTAL CRABS	26,038	2,872	52,570	3,837	78,608	6,709

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	MARYLAND		VIRGINIA		TOTAL	
SHELLFISH, ETC. - CONTINUED	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
LOBSTERS, NORTHERN	4	2	28	12	32	14
CLAMS:						
HARD:						
PUBLIC	332	172	2,142	1,065	2,474	1,237
PRIVATE.	-	-	311	154	311	154
SOFT, PUBLIC	8,164	1,667	-	-	8,164	1,667
SURF	38	3	-	-	38	3
TOTAL CLAMS.	8,534	1,842	2,453	1,219	10,987	3,061
CONCHS	31	3	262	16	293	19
OYSTERS, MARKET:						
PUBLIC:						
SPRING	2,533	1,697	1,233	900	3,766	2,597
FALL	4,270	2,817	2,099	1,511	6,369	4,328
PRIVATE:						
SPRING	466	392	5,169	3,813	5,635	4,205
FALL	679	555	5,649	4,121	6,328	4,676
TOTAL OYSTERS.	7,948	5,461	14,150	10,345	22,098	15,806
SCALLOPS, SEA.	-	-	194	95	194	95
SQUID.	29	2	206	11	235	13
TERRAPIN	7	3	2	(1)	9	3
TURTLES, SNAPPER	58	7	196	30	254	37
TOTAL SHELLFISH, ETC.. .	42,649	10,192	70,061	15,565	112,710	25,757
GRAND TOTAL.	70,828	11,729	465,768	24,219	536,596	35,948

1/ LESS THAN 500 POUNDS OR $500.

NOTE:--STATISTICS ON THE CATCH ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS. CLAMS, CONCHS, AND OYSTERS ARE REPORTED IN WEIGHT OF TOTAL MEATS; SCALLOPS, IN WEIGHT OF EDIBLE MEATS.

CATCH OF CERTAIN SHELLFISH, 1964

(NUMBER AND BUSHELS)

SPECIES		MARYLAND		VIRGINIA		TOTAL	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CRABS, BLUE:							
HARD.	NUMBER	54,096,480	$1,609,071	154,200,800	$3,385,029	208,297,280	$4,994,100
SOFT AND PEELER	DO	13,991,604	1,262,739	5,976,223	452,163	19,967,827	1,714,902
CLAMS:	U. S.						
HARD:	STANDARD						
PUBLIC. . . .	BUSHELS	41,500	171,503	267,775	1,065,427	309,275	1,236,930
PRIVATE . . .	DO	-	-	38,862	154,005	38,862	154,005
SOFT, PUBLIC. .	DO	680,358	1,667,098	-	-	680,358	1,667,098
SURF.	DO	2,224	3,337	-	-	2,224	3,337
CONCHS.	DO	1,535	3,302	13,095	15,530	14,630	18,832
OYSTERS, MARKET:							
PUBLIC:							
SPRING. . . .	DO	541,175	1,696,486	262,362	900,129	803,537	2,596,615
FALL.	DO	920,366	2,817,105	467,416	1,510,950	1,387,782	4,328,055
PRIVATE:							
SPRING. . . .	DO	92,875	391,923	1,202,140	3,812,727	1,295,015	4,204,650
FALL.	DO	134,416	555,123	1,348,258	4,121,258	1,482,674	4,676,381
SCALLOPS, SEA . .	DO	-	-	32,267	94,869	32,267	94,869

NOTE:--THE CAPACITY OF A U. S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

AVERAGE WEIGHTS OF CERTAIN SHELLFISH, 1964

SPECIES		MARYLAND	VIRGINIA
		QUANTITY	QUANTITY
CRABS, BLUE:			
HARD.	NUMBER PER POUND	2.40	2.99
SOFT AND PEELER	DO	4.00	5.99
CLAMS:	POUNDS OF MEATS		
HARD:	PER U. S.		
PUBLIC. . . .	STANDARD BUSHEL	8.00	8.00
PRIVATE . . .	DO	-	8.00
SOFT, PUBLIC. .	DO	12.00	-
SURF.	DO	17.00	-
CONCHS.	DO	20.00	20.00
OYSTERS, MARKET:			
PUBLIC:			
SPRING. . . .	DO	4.68	4.70
FALL.	DO	4.64	4.49
PRIVATE:			
SPRING. . . .	DO	5.01	4.30
FALL.	DO	5.05	4.19
SCALLOPS, SEA . .	DO	-	6.00

NOTE:--THE CAPACITY OF A U. S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

MANUFACTURED FISHERY PRODUCTS, 1964

ITEM		MARYLAND		VIRGINIA	
		QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES:					
CANNED:					
FISH	STANDARD CASES	(1)	(1)	65,034	$256,167
ROE	DO	(1)	(1)	34,558	451,110
SALTED AND PICKLED	POUNDS	(1)	(1)	2,755,810	269,655
SPECIALTIES, CURED AND REFRIGERATED	DO	(1)	(1)	-	-
MEAL AND SCRAP	TONS	-	-	1,457	180,528
OIL	1,000 POUNDS	(1)	(1)	678	48,701
SOLUBLES	TONS	-	-	848	51,234
ANCHOVY PASTE, CANNED	STANDARD CASES	(1)	(1)	-	-
BLUEFISH FILLETS, FROZEN	POUNDS	-	-	(1)	(1)
BUTTERFISH, SMOKED	DO	(1)	(1)	-	-
CARP, SMOKED	DO	(1)	(1)	-	-
CHUBS, SMOKED	DO	(1)	(1)	-	-
COD, FROZEN:					
FILLETS	DO	-	-	(1)	(1)
SPECIALTIES (CAKES)	DO	-	-	(1)	(1)
EELS, SMOKED	DO	(1)	(1)	-	-
FLOUNDER, FILLETS:					
FROZEN	DO	-	-	386,000	187,450
BREADED, RAW	DO	-	-	(1)	(1)
HALIBUT STEAKS, FROZEN	DO	-	-	(1)	(1)
MENHADEN:					
MEAL AND SCRAP	TONS	-	-	32,804	4,201,269
OIL	1,000 POUNDS	-	-	23,944	1,737,616
SOLUBLES	TONS	-	-	21,176	1,258,672
SABLEFISH, SMOKED	POUNDS	(1)	(1)	-	-
SALMON:					
STEAKS, FROZEN	DO	-	-	(1)	(1)
SMOKED	DO	(1)	(1)	-	-
SEA BASS FILLETS, FROZEN	DO	-	-	(1)	(1)
SEA HERRING:					
SALTED AND PICKLED	DO	(1)	(1)	-	-
SMOKED	DO	(1)	(1)	-	-
SPECIALTIES, CURED AND REFRIGERATED (PARTY SNACKS, LUNCH HERRING, CREAM FILLETS, ETC.)	DO	(1)	(1)	-	-
SHAD:					
FILLETS, FROZEN	DO	-	-	(1)	(1)
SMOKED	DO	(1)	(1)	-	-
SNAPPER, RED, FILLETS, FROZEN	DO	-	-	(1)	(1)
SPANISH MACKEREL FILLETS, FROZEN	DO	-	-	(1)	(1)
STRIPED BASS FILLETS, FROZEN	DO	-	-	(1)	(1)
STURGEON, SMOKED	DO	(1)	(1)	-	-
SWORDFISH STEAKS, FROZEN	DO	-	-	(1)	(1)
TUNA:					
SPECIALTIES, FROZEN (PIES, PATTIES, CROQUETTES)	DO	-	-	(1)	(1)
CANNED	STANDARD CASES	(1)	(1)	-	-
WHITEFISH, SMOKED	POUNDS	(1)	(1)	-	-
CRABS:					
BLUE:					
FRESH AND FROZEN:					
COOKED MEAT	DO	3,790,947	$4,425,820	4,048,260	4,269,788
SPECIALTIES (CAKES, CUTLETS, DEVILED, ETC.)	DO	1,922,082	1,382,572	294,770	273,270
SPECIALTIES, CANNED (SOUP)	STANDARD CASES	(1)	(1)	-	-
MEAL AND SCRAP	TONS	3,523	156,697	4,266	189,009
KING, SPECIALTIES FROZEN (CAKES)	POUNDS	-	-	(1)	(1)
LOBSTER SOUP, CANNED	STANDARD CASES	(1)	(1)	-	-
SHRIMP:					
BREADED, FROZEN	POUNDS	(1)	(1)	(1)	(1)
SPECIALTIES:					
FROZEN (CROQUETTES, STUFFED, ETC.)	DO	(1)	(1)	(1)	(1)
CANNED (SOUP)	STANDARD CASES	(1)	(1)	-	-
CLAMS:					
FRESH AND FROZEN:					
SHUCKED:					
HARD	GALLONS	-	-	12,083	54,374
SOFT	DO	525,341	2,652,600	-	-
SPECIALTIES:					
FROZEN (BREADED, STRIPS, CROQUETTES, ETC.)	POUNDS	482,862	478,745	(1)	(1)
CANNED (CHOWDER AND IN SHELL)	STANDARD CASES	22,878	206,634	-	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		MARYLAND		VIRGINIA	
		QUANTITY	VALUE	QUANTITY	VALUE
OYSTERS:					
FRESH AND FROZEN:					
SHUCKED	GALLONS	773,543	$5,802,557	1,480,630	$11,817,006
STEAMED	POUNDS	-	-	984,400	2,162,580
BREADED, RAW.	DO	160,182	195,576	602,700	545,230
STEWS	DO	(1)	(1)	-	-
SHELL, GRIT AND LIME.	TONS	(1)	(1)	12,004	204,118
SCALLOPS, BREADED RAW FROZEN. . . .	POUNDS	(1)	(1)	200,954	140,643
CONCHS, STEAMED FRESH	DO	-	-	(1)	(1)
UNCLASSIFIED:					
FRESH AND FROZEN, PACKAGED:					
FISH:					
STICKS, BREADED:					
RAW	DO	(1)	(1)	854,260	244,985
COOKED.	DO	(1)	(1)	-	-
PORTIONS, BREADED:					
RAW	DO	(1)	(1)	359,981	99,831
COOKED.	DO	(1)	(1)	-	-
UNBREADED	DO	(1)	(1)	-	-
FISH AND SHELLFISH.	POUNDS	19,069,903	6,969,167	5,247,357	1,360,665
CANNED.	STANDARD CASES	661,300	7,136,666	(2)	(2)
CURED	POUNDS	7,936,111	4,480,769	-	-
INDUSTRIAL.	-	-	1,334,628	-	39,155
TOTAL	-	-	35,222,431	-	30,043,056

1/ INCLUDED IN UNCLASSIFIED ITEMS. 2/ INCLUDED WITH UNCLASSIFIED FISH AND SHELLFISH.

NOTE:--SOME PRODUCTS MAY HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE CATCH WITHIN THE STATE. CERTAIN ITEMS ARE SHOWN IN AN INTERMEDIATE AND ALSO IN A MORE ADVANCED STAGE OF PROCESSING.

SUMMARY OF MANUFACTURED PRODUCTS, 1964

(VALUE IN THOUSANDS OF DOLLARS)

ITEM		QUANTITY	VALUE
PACKAGED, FRESH AND FROZEN:			
NOT BREADED:			
FISH.	1,000 POUNDS	1,173	557
SHELLFISH	DO	32,266	29,022
BREADED:			
FISH.	DO	20,054	7,321
SHELLFISH	DO	1,885	1,663
SPECIALTIES, FISH AND SHELLFISH (NOT BREADED AND BREADED). . . .	DO	3,751	4,110
CANNED.	1,000 STANDARD CASES	861	8,440
CURED	1,000 POUNDS	10,692	4,750
INDUSTRIAL.	-	-	9,402
TOTAL	-	-	65,265

VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1964

(THOUSANDS OF DOLLARS)

STATE	VALUE
MARYLAND.	35,222
VIRGINIA.	30,043
TOTAL	65,265

WHOLESALING AND MANUFACTURING, 1964

ITEM	MARYLAND	VIRGINIA	TOTAL
	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING:			
ESTABLISHMENTS.	272	350	622
PERSONS ENGAGED:			
AVERAGE FOR SEASON.	5,042	5,242	10,284
AVERAGE FOR YEAR.	4,385	3,069	7,454

CHESAPEAKE FISHERIES

MARYLAND

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	PURSE SEINES		OTTER TRAWLS, FISH	POUND NETS, FISH	FYKE AND HOOP NETS, FISH
		MENHADEN	TUNA			
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	113	31	58	60	105	6
ON BOATS AND SHORE:						
REGULAR.	321	-	-	9	304	73
CASUAL	167	-	-	-	25	35
TOTAL	601	31	58	69	434	114
VESSELS, MOTOR	21	2	5	21	20	3
GROSS TONNAGE.	194	263	1,847	691	171	24
BOATS:						
MOTOR.	98	3	5	4	65	61
OTHER.	117	-	7	-	87	-
GEAR:						
NUMBER	115	2	5	25	236	644
LENGTH, YARDS.	50,050	750	4,480	-	-	-
YARDS AT MOUTH	-	-	-	644	-	-

ITEM	POTS AND TRAPS				GILL NETS	
	CRAB	EEL	FISH	TURTLE	ANCHOR, SET OR STAKE	DRIFT
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	147	-	2	-	210	131
ON BOATS AND SHORE:						
REGULAR.	419	129	6	25	853	331
CASUAL	117	69	20	6	693	321
TOTAL	683	198	28	31	1,756	783
VESSELS, MOTOR	123	-	1	-	107	64
GROSS TONNAGE.	988	-	14	-	1,000	653
BOATS:						
MOTOR.	493	142	14	27	920	378
OTHER.	-	-	-	-	39	-
GEAR:						
NUMBER	63,915	6,845	960	323	1,545	471
SQUARE YARDS	-	-	-	-	1,688,435	768,250

ITEM	LINES			DIP NETS, COMMON	SCRAPES	DREDGES
	HAND	LONG OR SET WITH HOOKS	TROT WITH BAITS			CLAM
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	-	3	89	-	-	161
ON BOATS AND SHORE:						
REGULAR.	-	11	1,144	33	227	206
CASUAL	260	5	979	127	4	5
TOTAL	260	19	2,212	160	231	372
VESSELS, MOTOR	-	1	85	-	-	82
GROSS TONNAGE.	-	19	648	-	-	706
BOATS:						
MOTOR.	70	10	2,006	121	230	131
OTHER.	-	-	-	45	-	-
GEAR:						
NUMBER	660	11	2,212	160	459	213
YARDS AT MOUTH	-	-	-	-	479	214
HOOKS OR BAITS	660	7,350	821,000	-	-	-

(CONTINUED ON NEXT PAGE)

MARYLAND - OPERATING UNITS BY GEAR, 1964 - Continued

ITEM	DREDGES - CONTINUED		TONGS		BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	CRAB	OYSTER, COMMON	OYSTER	OTHER		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	-	320	327	15	-	1,257
ON BOATS AND SHORE:						
REGULAR.	3	65	2,586	70	15	3,754
CASUAL	1	10	1,680	3	63	4,260
TOTAL	4	395	4,593	88	78	9,271
VESSELS:						
MOTOR.	-	14	257	12	-	475
GROSS TONNAGE.	-	182	2,053	107	-	6,605
SAIL	-	61	-	-	-	61
GROSS TONNAGE.	-	687	-	-	-	687
TOTAL VESSELS	-	75	257	12	-	536
TOTAL GROSS TONNAGE . .	-	869	2,053	107	-	7,292
BOATS:						
MOTOR.	4	29	3,368	68	-	5,959
OTHER.	-	-	24	-	-	308
GEAR:						
NUMBER	4	187	4,593	85	-	-
YARDS AT MOUTH	4	213	-	-	-	-

MARYLAND - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		PURSE SEINES			
			MENHADEN		TUNA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	2,800	$56	-	-	-	-
CARP	131,200	3,826	-	-	-	-
CATFISH AND BULLHEADS. . . .	45,400	3,134	-	-	-	-
EELS, COMMON	600	52	-	-	-	-
MENHADEN	11,300	196	4,362,300	$68,278	-	-
SEA TROUT OR WEAKFISH, GRAY.	600	66	-	-	-	-
SHAD	100	17	-	-	-	-
SPOT	8,800	1,583	-	-	-	-
STRIPED BASS	363,500	58,964	-	-	-	-
SUCKERS.	200	4	-	-	-	-
SUNFISH.	200	11	-	-	-	-
TUNA:						
BLUEFIN.	-	-	-	-	1,448,700	$185,753
SKIPJACK	-	-	-	-	1,112,900	111,292
YELLOWFIN.	-	-	-	-	276,800	35,983
WHITE PERCH.	33,900	4,233	-	-	-	-
YELLOW PERCH	10,800	1,221	-	-	-	-
TERRAPIN	100	40	-	-	-	-
TOTAL	609,500	73,403	4,362,300	68,278	2,838,400	333,028

SPECIES	OTTER TRAWLS		POUND NETS		FYKE AND HOOP NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	1,104,100	$22,063	4,300	$86
BLUEFISH	800	$97	2,100	228	-	-
BUTTERFISH	29,500	2,428	2,800	280	-	-
CARP	-	-	4,400	132	4,200	126
CATFISH AND BULLHEADS. . . .	-	-	42,200	3,103	61,000	3,987
COD.	1,700	194	-	-	-	-
CRAPPIE.	-	-	-	-	4,900	280
CROAKER.	-	-	2,400	527	-	-
DRUM, BLACK.	200	8	1,800	108	-	-
EELS, COMMON	200	5	6,900	598	600	52
FLOUNDERS:						
BLACKBACK.	18,700	663	-	-	-	-
FLUKE.	537,100	108,478	17,800	2,727	900	140
UNCLASSIFIED	900	49	-	-	-	-
GIZZARD SHAD	-	-	1,600	34	100	6

(CONTINUED ON NEXT PAGE)

MARYLAND - CATCH BY GEAR, 1964 - Continued

SPECIES	OTTER TRAWLS		POUND NETS		FYKE AND HOOP NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HAKE, RED.	17,700	$328	-	-	-	-
HERRING, SEA	12,800	139	-	-	-	-
HICKORY SHAD	-	-	100	$7	-	-
HOGCHOKER.	-	-	9,100	183	-	-
KING WHITING OR "KINGFISH" .	13,500	1,070	-	-	-	-
MACKEREL	1,400	91	100	16	-	-
MENHADEN	-	-	1,299,900	22,078	700	$13
PIGFISH.	200	5	-	-	-	-
PIKE OR PICKEREL	-	-	700	184	2,100	384
SCUP OR PORGY.	217,600	11,882	-	-	-	-
SEA BASS	147,500	11,493	-	-	-	-
SEA ROBIN.	525,400	5,254	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY.	153,700	14,122	17,000	1,855	-	-
SHAD	300	24	133,600	13,389	-	-
SHARKS:						
GRAYFISH	27,200	1,121	-	-	-	-
UNCLASSIFIED	84,800	2,480	-	-	-	-
SKATES	5,900	38	-	-	-	-
SPOT	-	-	10,900	1,844	-	-
STRIPED BASS	1,000	144	91,800	14,938	2,000	326
STURGEON	15,500	2,217	-	-	-	-
SUCKERS.	-	-	-	-	600	14
SUNFISH.	-	-	-	-	12,400	694
SWELLFISH.	14,800	366	419,200	14,067	1,800	36
TAUTOG	400	8	-	-	-	-
WHITE PERCH.	100	3	37,100	4,591	25,600	3,201
WHITING.	130,400	3,091	-	-	-	-
YELLOW PERCH	-	-	4,400	498	67,900	7,689
UNCLASSIFIED:						
FOR FOOD	600	20	1,300	78	-	-
BAIT, REDUCTION, AND ANIMAL FOOD	9,535,900	61,986	-	-	-	-
LOBSTERS, NORTHERN	1,200	359	-	-	-	-
CONCHS	30,700	3,302	-	-	-	-
SQUID.	28,900	2,483	-	-	-	-
TOTAL	11,556,600	233,948	3,211,300	103,528	189,100	17,034

SPECIES	POTS AND TRAPS							
	CRAB		EEL		FISH		TURTLE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH AND BULLHEADS. . . .	-	-	-	-	147,400	$10,669	-	-
EELS, COMMON	-	-	176,800	$17,284	-	-	-	-
HAKE, RED.	-	-	-	-	1,800	40	-	-
SEA BASS	-	-	-	-	145,800	17,521	-	-
SWELLFISH.	364,500	$10,027	-	-	-	-	-	-
TAUTOG	-	-	-	-	1,200	34	-	-
CRABS, BLUE:								
HARD	12,060,500	900,939	-	-	-	-	-	-
SOFT AND PEELER.	264,600	95,520	-	-	-	-	-	-
LOBSTERS, NORTHERN	-	-	-	-	2,300	1,346	-	-
TURTLES, SNAPPER	-	-	-	-	-	-	52,600	$6,583
TOTAL	12,689,600	1,006,486	176,800	17,284	298,500	29,610	52,600	6,583

SPECIES	GILL NETS				LINES			
	ANCHOR, SET OR STAKE		DRIFT		HAND		LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	185,800	$3,705	16,800	$336	-	-	-	-
BLUEFISH	2,100	206	1,000	137	100	$20	-	-
BUTTERFISH	200	22	200	21	-	-	-	-
CARP	21,400	626	6,100	183	-	-	-	-
CATFISH AND BULLHEADS. . . .	54,700	3,816	12,900	897	-	-	28,000	$1,993
COD.	-	-	-	-	-	-	11,600	1,827
CRAPPIE.	500	29	-	-	-	-	-	-
EELS, COMMON	900	81	-	-	-	-	-	-
FLOUNDERS:								
BLACKBACK.	5,800	694	-	-	1,200	60	-	-
FLUKE.	1,600	248	100	15	-	-	-	-
GIZZARD SHAD	9,700	165	-	-	-	-	-	-
HAKE, RED.	-	-	-	-	-	-	100	2
HERRING, SEA	-	-	100	1	-	-	400	4
HICKORY SHAD	12,500	841	2,200	147	-	-	-	-
KING WHITING OR "KINGFISH" .	500	42	600	62	-	-	-	-
MACKEREL	-	-	11,900	502	-	-	-	-
MENHADEN	32,100	574	-	-	-	-	-	-

(CONTINUED ON NEXT PAGE)

MARYLAND - CATCH BY GEAR, 1964 - Continued

SPECIES	GILL NETS				LINES			
	ANCHOR, SET OR STAKE		DRIFT		HAND		LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
MULLET, BLACK.	900	$57	-	-	-	-	-	-
PIKE OR PICKEREL	1,200	247	-	-	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY.	200	20	500	$75	-	-	-	-
SHAD	530,100	72,745	226,000	29,611	-	-	-	-
SHARKS:								
GRAYFISH	-	-	100	3	-	-	-	-
UNCLASSIFIED	500	11	-	-	-	-	-	-
SPOT	1,800	368	6,200	1,279	6,200	$1,147	-	-
STRIPED BASS	1,883,100	297,782	761,600	123,883	196,800	41,556	-	-
SUNFISH.	8,800	495	-	-	-	-	-	-
WHITE PERCH.	350,900	43,366	190,600	23,848	-	-	-	-
WHITING.	-	-	-	-	-	-	400	$18
YELLOW PERCH	43,700	4,929	5,000	563	-	-	-	-
UNCLASSIFIED, FOR FOOD . . .	100	6	-	-	-	-	-	-
TURTLES, SNAPPER	-	-	-	-	4,000	307	-	-
TOTAL	3,149,100	431,075	1,241,900	181,563	208,300	43,090	40,500	3,844

SPECIES	LINES - CONTINUED		DIP NETS		SCRAPES	
	TROT WITH BAITS					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRABS, BLUE:						
HARD	10,361,600	$699,310	5,700	$426	87,800	$6,558
SOFT AND PEELER.	153,800	55,521	12,500	4,511	3,067,000	1,107,187
TERRAPIN	-	-	-	-	6,500	2,272
TURTLES, SNAPPER	-	-	1,000	80	-	-
TOTAL	10,515,400	754,831	19,200	5,017	3,161,300	1,116,017

SPECIES	DREDGES					
	CLAM		CRAB		OYSTER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRABS, BLUE, HARD.	-	-	24,600	$1,838	-	-
CLAMS:						
HARD, PUBLIC	210,600	$110,247	-	-	-	-
SOFT, PUBLIC	8,164,300	1,667,098	-	-	-	-
SURF	37,800	3,337	-	-	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING	-	-	-	-	533,500	$378,876
FALL	-	-	-	-	494,200	324,496
PRIVATE:						
SPRING	-	-	-	-	411,000	356,856
FALL	-	-	-	-	439,900	400,372
TOTAL	8,412,700	1,780,682	24,600	1,838	1,878,600	1,460,600

SPECIES	TONGS				BY HAND	
	OYSTER		OTHER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS, HARD, PUBLIC.	-	-	107,400	$54,010	14,000	$7,246
OYSTERS, MARKET:						
PUBLIC:						
SPRING	1,999,200	$1,317,610	-	-	-	-
FALL	3,776,300	2,492,609	-	-	-	-
PRIVATE:						
SPRING	54,700	35,067	-	-	-	-
FALL	238,900	154,751	-	-	-	-
TERRAPIN	800	320	-	-	-	-
TOTAL	6,069,900	4,000,357	107,400	54,010	14,000	7,246

CHESAPEAKE FISHERIES
VIRGINIA

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	PURSE SEINES, MENHADEN	OTTER TRAWLS, FISH	POUND NETS		FYKE AND HOOP NETS, FISH
				FISH	CRAB	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	157	677	260	362	1	7
ON BOATS AND SHORE:						
REGULAR	327	-	-	784	360	123
CASUAL.	200	-	-	360	137	90
TOTAL.	684	677	260	1,506	498	220
VESSELS, MOTOR.	33	41	63	76	1	4
GROSS TONNAGE	329	9,400	4,024	838	8	36
BOATS:						
MOTOR	197	86	-	331	435	146
OTHER	142	-	-	305	-	29
GEAR:						
NUMBER.	171	41	63	921	2,839	562
LENGTH, YARDS	108,700	15,513	-	-	-	-
YARDS AT MOUTH.	-	-	1,683	-	-	-

ITEM	POTS AND TRAPS				SLAT TRAPS	GILL NETS
	CRAB	EEL	FISH	TURTLE		ANCHOR, SET OR STAKE
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	350	4	2	-	-	55
ON BOATS AND SHORE:						
REGULAR	854	42	69	4	-	595
CASUAL.	330	23	43	7	2	398
TOTAL.	1,534	69	114	11	2	1,048
VESSELS, MOTOR.	189	2	1	-	-	27
GROSS TONNAGE	1,341	19	11	-	-	226
BOATS:						
MOTOR	1,120	58	81	6	1	785
OTHER	10	2	8	1	1	43
GEAR:						
NUMBER.	120,680	912	3,686	200	2	1,353
SQUARE YARDS.	-	-	-	-	-	692,409

ITEM	GILL NETS - CONTINUED	LINES			DIP NETS, COMMON	SCRAPES
	DRIFT	HAND	LONG OR SET WITH HOOKS	TROT WITH BAITS		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	160	8	93	-	-	2
ON BOATS AND SHORE:						
REGULAR	399	22	34	107	127	58
CASUAL.	495	55	20	35	87	29
TOTAL.	1,054	85	147	142	214	89
VESSELS, MOTOR.	75	3	17	-	-	1
GROSS TONNAGE	730	35	1,332	-	-	14
BOATS:						
MOTOR	511	46	52	130	213	70
OTHER	22	12	-	-	1	-
GEAR:						
NUMBER.	639	1,249	77	130	214	120
SQUARE YARDS.	581,160	-	-	-	-	-
YARDS AT MOUTH.	-	-	-	-	-	194
HOOKS OR BAITS.	-	1,249	20,521	79,450	-	-

(CONTINUED ON NEXT PAGE)

VIRGINIA - OPERATING UNITS BY GEAR, 1964 - Continued

ITEM	DREDGES				TONGS	
	CLAM	CRAB	OYSTER, COMMON	SCALLOP	OYSTER	OTHER
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	7	413	376	20	356	103
ON BOATS AND SHORE:						
REGULAR	39	48	293	-	1,287	604
CASUAL.	13	41	110	-	885	285
TOTAL.	59	502	779	20	2,528	992
VESSELS, MOTOR.	3	153	145	2	175	51
GROSS TONNAGE	33	3,243	1,419	371	1,265	359
BOATS:						
MOTOR	33	48	202	-	1,563	537
OTHER	-	-	-	-	20	80
GEAR:						
NUMBER.	36	362	444	4	2,528	992
YARDS AT MOUTH.	29	596	493	14	-	-

ITEM	RAKES		BY HAND		TOTAL, EXCLUSIVE OF DUPLICATION
	OYSTER	OTHER	OYSTER	OTHER	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	-	2	-	-	2,707
ON BOATS AND SHORE:					
REGULAR	15	345	68	350	3,954
CASUAL.	10	173	20	85	2,688
TOTAL.	25	520	88	435	9,349
VESSELS, MOTOR.	-	1	-	-	723
GROSS TONNAGE	-	6	-	-	21,802
BOATS:					
MOTOR	14	330	24	72	3,991
OTHER	6	51	8	18	688
GEAR, NUMBER.	25	520	-	-	-

CRAB TROT LINE

VIRGINIA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		PURSE SEINES, MENHADEN		OTTER TRAWLS, FISH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	557,600	$10,596	-	-	-	-
BLUEFISH	103,000	14,035	-	-	9,700	$1,262
BONITO	5,400	512	-	-	-	-
BUTTERFISH	278,100	24,525	-	-	562,300	37,204
CABIO.	4,500	205	-	-	-	-
CARP	116,700	2,400	-	-	-	-
CATFISH AND BULLHEADS. . . .	211,200	15,175	-	-	-	-
COD.	-	-	-	-	1,800	201
CROAKER.	83,300	12,518	-	-	58,100	12,717
DRUM:						
BLACK.	15,000	432	-	-	1,700	60
RED.	2,500	218	-	-	-	-
EELS, COMMON	12,900	1,111	-	-	400	20
FLOUNDERS:						
BLACKBACK.	6,300	319	-	-	15,100	780
DAB.	-	-	-	-	33,800	1,384
FLUKE.	115,500	21,190	-	-	1,120,600	203,150
YELLOWTAIL	-	-	-	-	2,000	120
GARFISH.	2,800	56	-	-	-	-
GIZZARD SHAD	39,900	461	-	-	-	-
HAKE:						
RED.	-	-	-	-	8,300	322
WHITE.	-	-	-	-	300	20
HARVESTFISH.	50,900	5,308	-	-	64,900	6,010
HICKORY SHAD	9,800	442	-	-	-	-
KING MACKEREL.	15,400	1,949	-	-	-	-
KING WHITING OR "KINGFISH" .	11,100	1,011	-	-	34,500	3,225
MACKEREL	-	-	-	-	36,800	5,136
MENHADEN	1,973,400	31,834	296,995,100	$4,247,030	-	-
MULLET, BLACK.	13,500	1,240	-	-	7,900	735
PIGFISH.	300	17	-	-	200	9
SCUP OR PORGY.	400	23	-	-	10,925,500	607,792
SEA BASS	200	20	-	-	3,453,200	324,233
SEA ROBIN.	-	-	-	-	6,300	66
SEA TROUT OR WEAKFISH:						
GRAY	420,200	41,777	-	-	80,500	6,349
SPOTTED.	9,200	2,470	-	-	-	-
SHAD	19,100	2,568	-	-	-	-
SHARKS:						
GRAYFISH	7,600	194	-	-	76,600	3,043
UNCLASSIFIED	9,800	209	-	-	10,400	228
SPANISH MACKEREL	9,200	1,316	-	-	300	37
SPOT	1,680,400	279,093	-	-	7,200	390
STRIPED BASS	547,900	88,165	-	-	100	10
STURGEON, COMMON	1,400	343	-	-	6,600	1,326
SUCKERS.	200	13	-	-	-	-
SWELLFISH.	849,100	11,384	-	-	26,400	684
TAUTOG	100	5	-	-	500	20
TILEFISH	-	-	-	-	2,500	220
TUNA, LITTLE	600	12	-	-	-	-
WHITE PERCH.	86,000	5,371	-	-	800	30
WHITING.	-	-	-	-	35,500	1,273
YELLOW PERCH	10,300	917	-	-	-	-
UNCLASSIFIED:						
FOR FOOD	7,000	700	-	-	1,400	141
BAIT, REDUCTION, AND ANIMAL FOOD	-	-	-	-	374,000	4,216
LOBSTERS, NORTHERN	-	-	-	-	25,000	11,372
CONCHS	-	-	-	-	25,900	2,044
SQUID.	-	-	-	-	206,100	10,830
TOTAL.	7,287,800	580,134	296,995,100	4,247,030	17,223,200	1,246,659

SPECIES	POUND NETS				FYKE AND HOOP NETS	
	FISH		CRAB			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	24,053,400	$440,384	-	-	1,924,900	$36,587
BLUEFISH	261,600	35,667	-	-	5,500	707
BONITO	8,400	710	-	-	-	-
BUTTERFISH	368,400	32,675	-	-	-	-
CABIO.	5,100	233	-	-	-	-
CARP	5,200	112	-	-	40,900	927
CATFISH AND BULLHEADS. . . .	60,500	4,388	-	-	255,500	18,129
CROAKER.	234,600	34,700	-	-	-	-
DRUM:						
BLACK.	30,100	1,031	-	-	-	-
RED.	2,000	170	-	-	-	-
EELS, COMMON	50,000	4,573	-	-	33,200	2,858

(CONTINUED ON NEXT PAGE)

VIRGINIA - CATCH BY GEAR, 1964 - Continued

SPECIES	POUND NETS				FYKE AND HOOP NETS	
	FISH		CRAB			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS:						
BLACKBACK	20,400	$1,004	-	-	100	$4
FLUKE	239,900	49,638	-	-	-	-
GARFISH	200	10	-	-	-	-
GIZZARD SHAD	16,700	208	-	-	18,300	210
HARVESTFISH	52,200	5,369	-	-	-	-
HICKORY SHAD	27,100	1,275	-	-	6,800	282
KING MACKEREL	21,300	2,663	-	-	-	-
KING WHITING OR "KINGFISH"	12,400	1,166	-	-	-	-
MACKEREL	1,500	187	-	-	-	-
MENHADEN	31,358,000	512,911	-	-	375,300	6,466
MULLET, BLACK	12,000	1,124	-	-	1,400	101
PIGFISH	1,600	85	-	-	-	-
SCUP OR PORGY	2,800	230	-	-	-	-
SEA BASS	600	65	-	-	-	-
SEA TROUT OR WEAKFISH:						
GRAY	1,040,500	107,183	-	-	-	-
SPOTTED	14,200	3,691	-	-	-	-
SHAD	1,395,500	173,346	-	-	109,700	13,685
SHARKS:						
GRAYFISH	14,800	446	-	-	-	-
UNCLASSIFIED	5,700	118	-	-	-	-
SPANISH MACKEREL	23,600	3,392	-	-	-	-
SPOT	850,600	135,535	-	-	16,100	2,250
STRIPED BASS	598,500	95,461	-	-	184,500	32,115
STURGEON, COMMON	1,400	343	-	-	100	25
SUCKERS	-	-	-	-	200	14
SWELLFISH	3,203,500	55,436	-	-	63,500	882
TAUTOG	300	15	-	-	-	-
TUNA, LITTLE	500	10	-	-	-	-
WHITE PERCH	103,100	7,176	-	-	61,500	5,240
YELLOW PERCH	6,500	585	-	-	10,300	932
UNCLASSIFIED:						
FOR FOOD	26,500	2,460	-	-	-	-
BAIT, REDUCTION, AND ANIMAL FOOD	637,900	14,239	-	-	-	-
CRABS, BLUE:						
HARD	-	-	225,100	$14,591	-	-
SOFT AND PEELER	-	-	374,900	167,841	-	-
CONCHS	2,000	150	-	-	-	-
TERRAPIN	-	-	-	-	1,200	328
TOTAL	64,771,100	1,730,164	600,000	182,432	3,109,000	121,742

SPECIES	POTS AND TRAPS							
	CRAB		EEL		FISH		TURTLE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH AND BULLHEADS	-	-	-	-	861,500	$57,920	-	-
EELS, COMMON	-	-	212,000	$11,467	5,000	400	-	-
SEA BASS	-	-	-	-	291,500	35,906	-	-
SWELLFISH	7,500	$225	-	-	193,600	5,687	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	-	-	1,800	35	-	-
CRABS, BLUE:								
HARD	35,579,900	2,407,047	-	-	-	-	-	-
SOFT AND PEELER	369,000	171,413	-	-	-	-	-	-
LOBSTERS, NORTHERN	-	-	-	-	2,700	1,100	-	-
CONCHS	33,400	2,615	-	-	-	-	-	-
TURTLES, SNAPPER	-	-	-	-	10,100	1,513	37,300	$5,750
TOTAL	35,989,800	2,581,300	212,000	11,467	1,366,200	102,561	37,300	5,750

SPECIES	SLAT TRAPS		GILL NETS					
			ANCHOR, SET OR STAKE		DRIFT			
					SHAD		OTHER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	71,600	$1,400	32,500	$605	-	-	-	-
BLUEFISH	-	-	6,500	880	-	-	8,800	$1,227
BUTTERFISH	-	-	2,000	200	-	-	100	13
CARP	-	-	7,200	134	300	$10	-	-
CATFISH AND BULLHEADS	-	-	2,700	152	-	-	-	-
CROAKER	-	-	3,400	615	-	-	14,800	2,349
FLOUNDERS, FLUKE	-	-	300	60	-	-	-	-
HERRING, SEA	-	-	-	-	-	-	400	5

(CONTINUED ON NEXT PAGE)

VIRGINIA - CATCH BY GEAR, 1964 - Continued

SPECIES	SLAT TRAPS		GILL NETS					
			ANCHOR, SET OR STAKE		DRIFT			
					SHAD		OTHER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HICKORY SHAD	200	$10	7,400	$338	6,300	$271	-	-
KING WHITING OR "KINGFISH" .	-	-	300	27	-	-	2,900	$95
MACKEREL	-	-	-	-	-	-	304,600	30,355
MENHADEN	-	-	6,000	90	700	12	-	-
MULLET, BLACK.	1,000	75	6,300	617	-	-	8,100	749
PIGFISH.	-	-	1,200	62	-	-	-	-
SCUP OR PORGY.	-	-	300	31	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY.	-	-	1,000	101	-	-	49,900	5,444
SHAD	100	12	691,300	81,746	435,500	54,862	200	12
SHARKS:								
GRAYFISH	-	-	4,200	88	-	-	1,167,300	17,202
UNCLASSIFIED	-	-	-	-	-	-	700	26
SPOT	-	-	217,500	41,011	-	-	425,400	71,761
STRIPED BASS	400	65	523,400	80,569	33,800	4,695	300	35
STURGEON, COMMON	-	-	-	-	-	-	1,200	141
SUCKERS.	-	-	1,100	79	-	-	-	-
SWELLFISH.	-	-	3,300	66	-	-	500	10
WHITE PERCH.	-	-	15,600	1,031	-	-	2,500	205
YELLOW PERCH	-	-	1,800	160	-	-	-	-
UNCLASSIFIED:								
FOR FOOD	-	-	5,100	609	-	-	-	-
BAIT, REDUCTION, AND ANIMAL FOOD	-	-	16,400	209	-	-	7,400	148
TOTAL.	73,300	1,562	1,556,800	209,480	476,600	59,850	1,995,100	129,777

SPECIES	LINES						DIP NETS, COMMON	
	HAND		LONG OR SET WITH HOOKS		TROT WITH BAITS			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	100	$10	-	-	-	-	-	-
BONITO	100	9	-	-	-	-	-	-
CABIO.	2,900	110	-	-	-	-	-	-
CATFISH AND BULLHEADS. . . .	-	-	68,800	$4,952	-	-	-	-
COD.	-	-	26,600	2,981	-	-	-	-
DRUM:								
BLACK.	21,400	885	-	-	-	-	-	-
RED.	100	7	-	-	-	-	-	-
EELS, COMMON	-	-	200	17	-	-	-	-
FLOUNDERS, FLUKE	2,700	594	-	-	-	-	-	-
MULLET, BLACK.	400	50	-	-	-	-	-	-
SCUP OR PORGY.	100	17	-	-	-	-	-	-
SEA BASS	6,900	1,105	-	-	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY.	800	95	-	-	-	-	-	-
SHARKS, GRAYFISH	-	-	2,600	71	-	-	-	-
SPOT	600	150	-	-	-	-	-	-
STRIPED BASS	100	20	-	-	-	-	-	-
SWORDFISH.	-	-	635,400	217,946	-	-	-	-
TUNA, UNCLASSIFIED	-	-	122,800	8,731	-	-	-	-
UNCLASSIFIED:								
FOR FOOD	700	50	-	-	-	-	-	-
BAIT, REDUCTION, AND ANIMAL FOOD	-	-	400	6	-	-	-	-
CRABS, BLUE:								
HARD	-	-	-	-	2,587,500	$163,759	39,200	$2,572
SOFT AND PEELER.	-	-	-	-	20,900	9,588	73,000	32,772
TERRAPIN	-	-	-	-	-	-	200	55
TURTLES, SNAPPER	148,700	22,714	-	-	-	-	-	-
TOTAL.	185,600	25,816	856,800	234,704	2,608,400	173,347	112,400	35,399

(CONTINUED ON NEXT PAGE)

VIRGINIA - CATCH BY GEAR, 1964 - Continued

SPECIES	SCRAPES		DREDGES			
			CLAM		CRAB	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRABS, BLUE:						
HARD	1,800	$128	4,000	$308	13,134,500	$796,624
SOFT AND PEELER.	139,700	61,482	-	-	-	-
CLAMS, HARD, PUBLIC.	-	-	204,000	119,123	113,800	56,571
CONCHS	-	-	-	-	199,900	10,686
TERRAPIN	-	-	300	100	-	-
TOTAL.	141,500	61,610	208,300	119,531	13,448,200	863,881

SPECIES	DREDGES - CONTINUED				TONGS			
	OYSTER, COMMON		SCALLOP		OYSTER		OTHER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, FLUKE	-	-	13,400	$2,000	-	-	-	-
CLAMS, HARD:								
PUBLIC	1,900	$900	-	-	-	-	1,395,400	$677,978
PRIVATE.	27,500	13,806	-	-	-	-	181,500	89,598
CONCHS	700	35	-	-	-	-	-	-
OYSTERS, MARKET:								
PUBLIC:								
SPRING	-	-	-	-	1,128,300	$821,529	-	-
FALL	-	-	-	-	1,921,600	1,378,125	-	-
PRIVATE:								
SPRING	4,953,500	3,656,748	-	-	215,700	155,979	-	-
FALL	5,431,500	3,963,584	-	-	217,700	157,674	-	-
SCALLOPS, SEA.	-	-	193,600	94,869	-	-	-	-
TOTAL.	10,415,100	7,635,073	207,000	96,869	3,483,300	2,513,307	1,576,900	767,576

SPECIES	RAKES				BY HAND			
	OYSTER		OTHER		OYSTER		OTHER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRABS, BLUE, SOFT AND PEELER.	-	-	-	-	-	-	20,200	$9,067
CLAMS, HARD:								
PUBLIC	-	-	282,100	$137,603	-	-	145,000	73,252
PRIVATE.	-	-	101,900	50,601	-	-	-	-
OYSTERS, MARKET, PUBLIC:								
SPRING	103,000	$77,250	-	-	1,800	$1,350	-	-
FALL	176,000	132,000	-	-	1,100	825	-	-
TOTAL.	279,000	209,250	384,000	188,204	2,900	2,175	165,200	82,319

CHESAPEAKE STATES - CATCH BY WATERS, 1964

SPECIES	MARYLAND				VIRGINIA	
	OCEAN 1/		CHESAPEAKE BAY		OCEAN 1/	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	100	$1	1,313,700	$26,245	-	-
BLUEFISH	3,900	449	2,200	239	13,600	$1,726
BONITO	-	-	-	-	100	9
BUTTERFISH	29,700	2,449	3,000	302	562,800	37,262
CARP	-	-	167,300	4,893	23,700	498
CATFISH AND BULLHEADS	-	-	391,600	27,599	-	-
COD	13,300	2,021	-	-	28,400	3,182
CRAPPIE	-	-	5,400	309	-	-
CROAKER	-	-	2,400	527	59,500	12,992
DRUM, BLACK	200	8	1,800	108	5,700	219
EELS, COMMON	200	5	185,800	18,067	400	20
FLOUNDERS:						
BLACKBACK	19,900	723	5,800	694	16,900	959
DAB	-	-	-	-	33,800	1,384
FLUKE	537,100	108,478	20,400	3,130	1,153,200	209,135
YELLOWTAIL	-	-	-	-	2,000	120
UNCLASSIFIED	900	49	-	-	-	-
GIZZARD SHAD	-	-	11,400	205	-	-
HAKE:						
RED	19,600	370	-	-	8,300	322
WHITE	-	-	-	-	300	20
HARVESTFISH	-	-	-	-	64,900	6,010
HERRING, SEA	13,300	144	-	-	400	5
HICKORY SHAD	-	-	14,800	995	-	-
HOGCHOKER	-	-	9,100	183	-	-
KING WHITING OR "KINGFISH"	14,600	1,174	-	-	38,300	3,407
MACKEREL	13,300	593	100	16	341,400	35,491
MENHADEN	5,000	100	5,701,300	91,039	45,896,000	656,313
MULLET	900	57	-	-	11,100	1,038
PIGFISH	200	5	-	-	2,100	110
PIKE OR PICKEREL	-	-	4,000	815	-	-
SCUP OR PORGY	217,600	11,882	-	-	10,927,700	608,014
SEA BASS	293,300	29,014	-	-	3,751,500	361,235
SEA ROBIN	525,400	5,254	-	-	6,300	66
SEA TROUT OR WEAKFISH, GRAY	154,400	14,217	17,600	1,921	81,600	6,472
SHAD	1,100	148	889,000	115,638	14,000	1,163
SHARKS:						
GRAYFISH	27,300	1,124	-	-	1,252,300	20,468
UNCLASSIFIED	85,300	2,491	-	-	11,100	254
SKATES	5,900	38	-	-	-	-
SPANISH MACKEREL	-	-	-	-	300	37
SPOT	8,000	1,647	25,900	4,574	102,900	18,577
STRIPED BASS	1,800	238	3,298,000	537,355	3,500	565
STURGEON	15,500	2,217	-	-	7,800	1,467
SUCKERS	-	-	800	18	-	-
SUNFISH	-	-	21,400	1,200	-	-
SWELLFISH	16,600	402	783,700	24,094	391,800	9,427
SWORDFISH	-	-	-	-	635,400	217,946
TAUTOG	1,600	42	-	-	500	20
TILEFISH	-	-	-	-	2,500	220
TUNA:						
BLUEFIN	1,448,700	185,753	-	-	-	-
SKIPJACK	1,112,900	111,292	-	-	-	-
YELLOWFIN	276,800	35,983	-	-	-	-
UNCLASSIFIED	-	-	-	-	122,800	8,731
WHITE PERCH	600	45	637,600	79,197	3,200	370
WHITING	130,800	3,109	-	-	35,500	1,273
YELLOW PERCH	-	-	131,800	14,900	-	-
UNCLASSIFIED:						
FOR FOOD	600	20	1,400	84	2,300	226
BAIT, REDUCTION, AND ANIMAL FOOD	9,535,900	61,986	-	-	410,500	4,851
CRABS, BLUE:						
HARD	242,500	18,115	22,297,700	1,590,956	5,648,200	424,975
SOFT AND PEELER	6,000	2,166	3,491,900	1,260,573	195,500	95,811
LOBSTERS, NORTHERN	3,500	1,705	-	-	27,700	12,472
CLAMS:						
HARD:						
PUBLIC	275,100	142,046	56,900	29,457	1,242,300	620,243
PRIVATE	-	-	-	-	26,200	12,379
SOFT, PUBLIC	-	-	8,164,300	1,667,098	-	-
SURF	37,800	3,337	-	-	-	-
CONCHS	30,700	3,302	-	-	51,700	4,001
OYSTERS, MARKET:						
PUBLIC:						
SPRING	-	-	2,532,700	1,696,486	58,800	44,100
FALL	-	-	4,270,500	2,817,105	322,000	241,500
PRIVATE:						
SPRING	120,600	166,724	345,100	225,199	881,600	661,200
FALL	137,400	198,060	541,400	357,063	782,900	587,175

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CHESAPEAKE STATES - CATCH BY WATERS, 1964 - Continued

SPECIES	MARYLAND				VIRGINIA	
	OCEAN 1/		CHESAPEAKE BAY		OCEAN 1/	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SCALLOPS, SEA	-	-	-	-	193,600	$94,869
SQUID	28,900	$2,483	-	-	206,100	10,830
TERRAPIN	-	-	7,400	$2,632	300	100
TURTLES, SNAPPER	-	-	57,600	6,970	-	-
TOTAL	15,414,800	1,121,466	55,412,800	10,607,886	75,663,300	5,041,259

SPECIES	VIRGINIA - CONTINUED		TOTAL			
	CHESAPEAKE BAY		OCEAN 1/		CHESAPEAKE BAY	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	26,640,000	$489,572	100	$1	27,953,700	$515,817
BLUEFISH	381,600	52,062	17,500	2,175	383,800	52,301
BONITO	13,800	1,222	100	9	13,800	1,222
BUTTERFISH	648,100	57,355	592,500	39,711	651,100	57,657
CABIO	12,500	548	-	-	12,500	548
CARP	146,600	3,085	23,700	498	313,900	7,978
CATFISH AND BULLHEADS	1,460,200	100,716	-	-	1,851,800	128,315
COD	-	-	41,700	5,203	-	-
CRAPPIE	-	-	-	-	5,400	309
CROAKER	334,700	49,907	59,500	12,992	337,100	50,434
DRUM:						
BLACK	62,500	2,189	5,900	227	64,300	2,297
RED	4,600	395	-	-	4,600	395
EELS, COMMON	313,300	20,426	600	25	499,100	38,493
FLOUNDERS:						
BLACKBACK	25,000	1,148	36,800	1,682	30,800	1,842
DAB	-	-	33,800	1,384	-	-
FLUKE	339,200	67,497	1,690,300	317,613	359,600	70,627
YELLOWTAIL	-	-	2,000	120	-	-
UNCLASSIFIED	-	-	900	49	-	-
GARFISH	3,000	66	-	-	3,000	66
GIZZARD SHAD	74,900	879	-	-	86,300	1,084
HAKE:						
RED	-	-	27,900	692	-	-
WHITE	-	-	300	20	-	-
HARVESTFISH	103,100	10,677	64,900	6,010	103,100	10,677
HERRING, SEA	-	-	13,700	149	-	-
HICKORY SHAD	57,600	2,618	-	-	72,400	3,613
HOGCHOKER	-	-	-	-	9,100	183
KING MACKEREL	36,700	4,612	-	-	36,700	4,612
KING WHITING OR "KINGFISH"	22,900	2,117	52,900	4,581	22,900	2,117
MACKEREL	1,500	187	354,700	36,084	1,600	203
MENHADEN	284,812,500	4,142,030	45,901,000	656,413	290,513,800	4,233,069
MULLET	39,500	3,653	12,000	1,095	39,500	3,653
PIGFISH	1,200	63	2,300	115	1,200	63
PIKE OR PICKEREL	-	-	-	-	4,000	815
SCUP OR PORGY	1,400	79	11,145,300	619,896	1,400	79
SEA BASS	900	94	4,044,800	390,249	900	94
SEA ROBIN	-	-	531,700	5,320	-	-
SEA TROUT OR WEAKFISH:						
GRAY	1,511,300	154,477	236,000	20,689	1,528,900	156,398
SPOTTED	23,400	6,161	-	-	23,400	6,161
SHAD	2,637,400	325,068	15,100	1,311	3,526,400	440,706
SHARKS:						
GRAYFISH	20,800	576	1,279,600	21,592	20,800	576
UNCLASSIFIED	15,500	327	96,400	2,745	15,500	327
SKATES	-	-	5,900	38	-	-
SPANISH MACKEREL	32,800	4,708	300	37	32,800	4,708
SPOT	3,094,900	511,613	110,900	20,224	3,120,800	516,187
STRIPED BASS	1,885,500	300,570	5,300	803	5,183,500	837,925
STURGEON	2,900	711	23,300	3,684	2,900	711
SUCKERS	1,500	106	-	-	2,300	124
SUNFISH	-	-	-	-	21,400	1,200
SWELLFISH	3,955,600	64,947	408,400	9,829	4,739,300	89,041
SWORDFISH	-	-	635,400	217,946	-	-
TAUTOG	400	20	2,100	62	400	20
TILEFISH	-	-	2,500	220	-	-
TUNA:						
BLUEFIN	-	-	1,448,700	185,753	-	-
LITTLE	1,100	22	-	-	1,100	22
SKIPJACK	-	-	1,112,900	111,292	-	-
YELLOWFIN	-	-	276,800	35,983	-	-
UNCLASSIFIED	-	-	122,800	8,731	-	-
WHITE PERCH	266,300	18,683	3,800	415	903,900	97,880
WHITING	-	-	166,300	4,382	-	-
YELLOW PERCH	28,900	2,594	-	-	160,700	17,494
UNCLASSIFIED:						
FOR FOOD	38,400	3,734	2,900	246	39,800	3,818
BAIT, REDUCTION, AND ANIMAL FOOD	627,400	14,002	9,946,400	66,837	627,400	14,002

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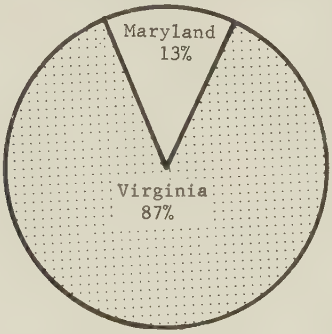
(CONTINUED ON NEXT PAGE)

CHESAPEAKE STATES - CATCH BY WATERS, 1964 - Continued

SPECIES	VIRGINIA - CONTINUED		TOTAL			
	CHESAPEAKE BAY		OCEAN 1/		CHESAPEAKE BAY	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRABS, BLUE:						
HARD	45,923,800	$2,960,054	5,890,700	$443,090	68,221,500	$4,551,010
SOFT AND PEELER	802,200	356,352	201,500	97,977	4,294,100	1,616,925
LOBSTERS, NORTHERN	-	-	31,200	14,177	-	-
CLAMS:						
HARD:						
PUBLIC	899,900	445,184	1,517,400	762,289	956,800	474,641
PRIVATE	284,700	141,626	26,200	12,379	284,700	141,626
SOFT, PUBLIC	-	-	-	-	8,164,300	1,667,098
SURF	-	-	37,800	3,337	-	-
CONCHS	210,200	11,529	82,400	7,303	210,200	11,529
OYSTERS, MARKET:						
PUBLIC:						
SPRING	1,174,300	856,029	58,800	44,100	3,707,000	2,552,515
FALL	1,776,700	1,269,450	322,000	241,500	6,047,200	4,086,555
PRIVATE:						
SPRING	4,287,600	3,151,527	1,002,200	827,924	4,632,700	3,376,726
FALL	4,866,300	3,534,083	920,300	785,235	5,407,700	3,891,146
SCALLOPS, SEA	-	-	193,600	94,869	-	-
SQUID	-	-	235,000	13,313	-	-
TERRAPIN	1,400	383	300	100	8,800	3,015
TURTLES, SNAPPER	196,100	29,977	-	-	253,700	36,947
TOTAL	390,104,600	19,177,710	91,078,100	6,162,725	445,517,400	29,785,596

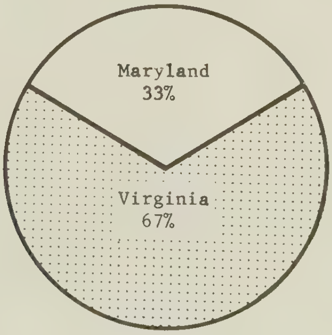
1/ INCLUDES BAYS AND CREEKS, EXCLUSIVE OF CHESAPEAKE BAY, WHICH DRAIN INTO THE ATLANTIC OCEAN.

CHESAPEAKE STATES CATCH, 1964



TOTAL 536,595,500 pounds

VALUE OF CHESAPEAKE STATES CATCH, 1964



TOTAL $35,948,321

POTOMAC RIVER SHAD AND ALEWIFE FISHERY

The shad catch in the Potomac River was 163,410 fish weighing 474,300 pounds and valued at $34,993 to the fishermen. This was an increase of 87 percent in number and 121 percent in poundage, but a decline of 2 percent in value compared with 1963. Landings were the highest since 1957, when 624,400 pounds were taken, but they were far below the 1922 record of 3.1 million pounds.

The Potomac River catch of alewives in 1964 was 18.8 million fish weighing 8.2 million pounds and valued at $139,380. Compared with 1963, this was a gain of 11 percent in number and 2 percent in both poundage and value.

There were 486 fishermen in the Potomac River shad and alewife fisheries during 1964--an increase of 54 compared with the previous year. Statistics on the catch and operating units of these fisheries are included in catch and operating unit data for Maryland and Virginia.

SUMMARY OF OPERATING UNITS AND CATCH, 1964

ITEM	MARYLAND			VIRGINIA			TOTAL		
OPERATING UNITS	NUMBER			NUMBER			NUMBER		
FISHERMEN:									
ON VESSELS.	-			28			28		
ON BOATS AND SHORE:									
REGULAR	95			141			236		
CASUAL.	140			82			222		
TOTAL.	235			251			486		
VESSELS, MOTOR. . . .	-			9			9		
GROSS TONNAGE . . .	-			74			74		
BOATS:									
MOTOR	116			96			212		
OTHER	15			35			50		
GEAR:									
HAUL SEINES, COMMON	-			9			9		
LENGTH, YARDS . .	-			5,200			5,200		
POUND NETS.	4			113			117		
FYKE AND HOOP NETS.	-			39			39		
GILL NETS:									
ANCHOR, SET OR STAKE.	210			154			364		
SQUARE YARDS. .	160,650			101,000			261,650		
DRIFT	12			12			24		
SQUARE YARDS. .	12,200			15,100			27,300		
CATCH	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE
SHAD:									
HAUL SEINES	-	-	-	1,103	3,200	$200	1,103	3,200	$200
POUND NETS.	103	300	$35	89,310	259,400	17,191	89,413	259,700	17,226
FYKE AND HOOP NETS.	-	-	-	1,965	5,700	356	1,965	5,700	356
GILL NETS:									
ANCHOR, SET OR STAKE.	25,310	73,400	8,670	29,930	86,800	5,430	55,240	160,200	14,100
DRIFT	862	2,500	291	14,827	43,000	2,820	15,689	45,500	3,111
TOTAL.	26,275	76,200	8,996	137,135	398,100	25,997	163,410	474,300	34,993
ALEWIVES:									
HAUL SEINES	-	-	-	140,455	61,100	1,039	140,455	61,100	1,039
POUND NETS.	28,965	12,600	235	18,266,670	7,946,300	135,462	18,295,635	7,958,900	135,697
FYKE AND HOOP NETS.	-	-	-	318,850	138,700	2,358	318,850	138,700	2,358
GILL NETS, ANCHOR, SET OR STAKE . . .	37,241	16,200	286	-	-	-	37,241	16,200	286
TOTAL.	66,206	28,800	521	18,725,975	8,146,100	138,859	18,792,181	8,174,900	139,380

NOTE:--EXCLUDES TRIBUTARIES OF THE POTOMAC RIVER.

SECTION 5 - SOUTH ATLANTIC FISHERIES

The commercial catch of fish and shellfish landed at ports of the South Atlantic States (North Carolina, South Carolina, Georgia, and the East Coast of Florida), including the commercial catch from fresh-water areas of Florida, was 336.0 million pounds valued at $20.6 million. Compared with the previous year, this was a decrease of 34.7 million pounds, but an increase of $1.2 million. Greatly reduced catches of menhaden, alewives, mullet, and oysters were responsible for the lower landings. The increased value resulted from relatively high ex-vessel prices for shrimp.

The greatest decrease in landings was at East Coast of Florida ports, where receipts were 19 percent below those of 1963; Georgia decreased 13 percent; North Carolina, 7; and South Carolina, 1 percent. The value of landings in each of the South Atlantic States except South Carolina was up slightly.

Fishermen and vessels. The number of commercial fishermen continued downward--11,281 during 1964 compared with 11,940 in 1963; however, the decrease was in casual fishermen who derive less than 50 percent of their income from commercial fishing. A total of 1,108 vessels (craft of over 5 net tons) operated in the commercial fisheries during the year--49 less than in 1963. The 6,001 other craft that operated were 529 less than in 1963.

Processing. There were 423 wholesaling and processing firms operated--8 more than in 1963. The value of processed fishery products--$52.5 million--was $12.4 million higher than in the previous year. The gain was largely due to a sharp increase in the production of raw headless and breaded shrimp in Florida and Georgia.

Weather. The aftermath of five hurricanes--Cleo, Dora, Gladys, Hilda, and Isabel--hampered fishing during August and September; but only Cleo inflicted any appreciable damage, and this was limited to lobster pot losses and some destruction to shore plant installations in the Florida Keys area. Rainfall was exceptionally heavy in all States during July, and may have affected the set of oyster spat. The unusually warm November and December extended the growing period for shrimp in inside waters.

Shrimp. There was little improvement in shrimp catches in most waters of the South Atlantic States. Total landings were only 1.8 million pounds (heads-on weight) more than in 1963. The minor increase in landings aroused little optimism because the 1963 landings were the lowest since 1908. Fortunately, strong demand caused higher ex-vessel prices during most of the year. The higher ex-vessel prices increased the total value 26 percent whereas the volume increased only 11 percent. Many industry members were discouraged by 2 successive years of poor shrimp production. Several firms went out of business, and a number of vessel owners shifted their operations to the Gulf of Mexico on a full-time basis rather than seasonally as in the past.

Landings at North Carolina ports were nearly 1 million pounds greater than during 1963. Increased abundance of pink shrimp resulted in nearly normal landings of this species. The virtual disappearance of pink shrimp from North Carolina waters during 1963 caused the low landings for that State. Catches of brown shrimp, however, were 17 percent below those of the previous year. With unusually warm weather during the fall, shrimp remained in inshore waters and fishing continued through December. Compared with the previous year, the size of shrimp landed did not change significantly. The average ex-vessel price of 35 cents per pound (heads-on) was 3-1/2 cents per pound higher than in 1963.

In South Carolina, shrimp landings were up 20 percent from 1963 but were still well below the yearly average of 4 to 5 million pounds. For the second consecutive year, there were few white shrimp in South Carolina waters. The continued reduced catches caused depressed economic conditions among all segments of the shrimp industry, despite an increase of about 4 cents per pound (heads-on) in the ex-vessel value. Based on the results of sampling postlarval shrimp, the Bears Bluff Laboratory again warned the shrimp industry to expect greatly reduced catches.

Shrimp landings at Georgia ports were 9 percent above 1963 but 24 percent below the average for the 5-year period 1959-63. Brown shrimp catches were above average, but a continuing shortage of white shrimp caused a substantial decline in landings compared with the prior 5-year period. Larger shrimp comprised a greater portion of the landings and the average ex-vessel price of 39 cents per pound (heads-on) was 6 cents higher than during 1963. The royal red shrimp fishery, 75 miles offshore between Fernandina Beach and St. Augustine, Fla., produced 58,000 pounds (heads-on)--almost identical with 1963.

Both brown and white shrimp landings at East Coast of Florida ports were about the same as in the previous year. Average ex-vessel price per pound was 44 cents (heads-on) compared with 39 cents during 1963. The royal red shrimp fishery was again active and about 133,000 pounds (heads-on) were landed; no landings of this species were recorded in 1963.

Menhaden. Catches continued downward with a decrease of 9 percent at North Carolina ports and 33 percent for Florida East Coast. Catches in North Carolina waters during the peak production months, November and December, were light because adverse weather made fishing hazardous. One fully loaded purse seiner sank during a storm in late November. Large fish were scarce and arrived later in November than usual. Greater numbers of small fish in the catches caused a reduced oil yield. The market demand for menhaden products remained strong. The average price for meal advanced $6.00 per ton; and oil, 15 cents per gallon over the previous year.

Industrial fish. Landings, mostly nonfoodfish, used for animal food or bait were about 750,000 pounds less than those of 1963. Temporary shortages of bait occurred in the crab fishery in Georgia and in both the crab and fresh-water catfish fisheries in South Carolina. Some bait fish were trucked in from the Gulf area during periods of shortages.

Blue crabs. Landings of 52 million pounds were about 1.2 million pounds above the record of the previous year. Many processors found it difficult to operate at a profit because new minimum wage laws caused increased labor costs. Considerable quantities of raw crabs were shipped from North Carolina and South Carolina, principally to the Chesapeake States. The use of trotlines with baits in North Carolina and South Carolina continued to decline as fishermen found pots or traps more efficient.

Oysters. Total production of 3.5 million pounds of meats was 27 percent less than the previous year and the lowest since 1959. While South Carolina continued to be the major production area, a decline of about 1.3 million pounds in landings in that State was the major reason for the sectional decrease. Several factors were involved in the decreased production in South Carolina. Two of these were weak demand for oysters during February and unusually heavy rains during July, which adversely affected the yield of meats during the fall season. Some industry members speculated that the strong demand of the previous year had resulted in overfishing.

In North Carolina, there was a reversal of the downward trend which began in 1959, with total landings about 5 percent higher than the previous year. The increase was due to greater productivity in the Pamlico Sound area where most single oysters are harvested. Production of cluster or "coon" oysters from waters of the five southernmost counties continued to decline. North Carolina processors and wholesalers found local supplies adequate for their needs and trucked few, if any, oysters in from other States as they had to do in prior years.

Food finfish. Total landings of finfish for human consumption were 58.3 million pounds--about the same as in 1963. The value was up nearly $200,000 from 1963, primarily because of increased landings of swordfish--the fishery for this species began in December 1963 and activity was greatly increased during 1964. Mullet landings were the lowest for any year, since 1880, in which surveys were conducted. Failure of mullet to appear in appreciable numbers along the coast caused a decline of 69 percent in South Carolina, 36 percent in North Carolina, and 16 percent in Florida. Extensive net damage by sharks along the coast of Florida caused net crews to curtail fishing, and reduced landings of king and Spanish mackerel resulted. Gray sea trout and spot increased 13 percent each over the previous year, and sea bass landings were up 11 percent. Cold weather during the spring delayed runs of alewives and shad.

Hard clams. Total production of 402,000 pounds of meats was nearly the same as in 1963, when 406,000 pounds were taken. A decrease of 77,000 pounds in North Carolina was compensated for by an increase in South Carolina. No offshore clams were harvested in North Carolina during 1964 because of the poor quality of the meats. South Carolina landings were double those of 1963 owing to the greater fishing effort that resulted when the poor shrimp season prompted more fishermen to harvest clams.

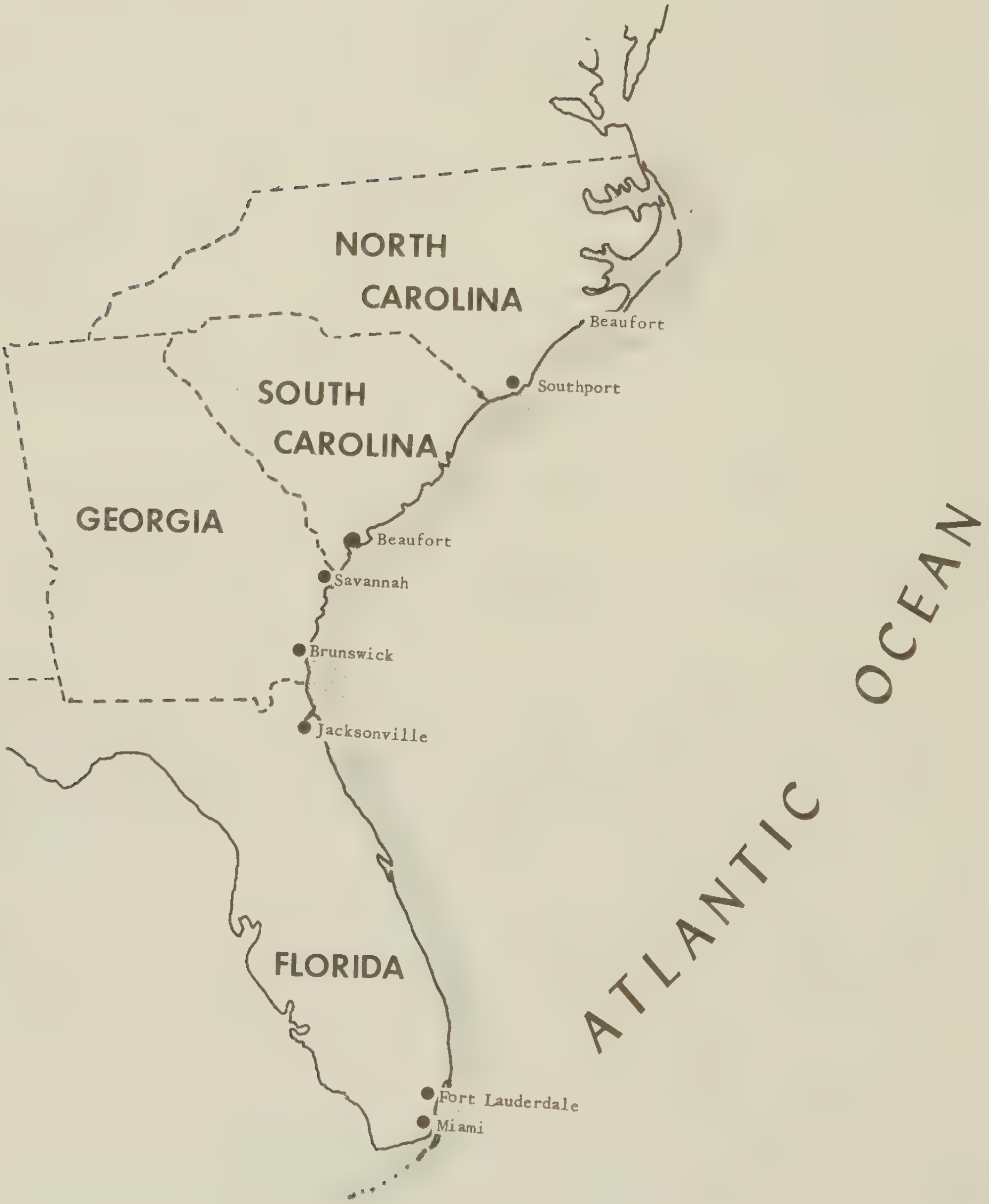
Scallops. North Carolina continued as the only producer of bay scallops among the South Atlantic States. While the volume increased only 6 percent, the value was up over 40 percent. Strict quality control standards initiated by North Carolina dealers during 1963 undoubtedly played an important part in the strong demand and higher prices paid for North Carolina bay scallop meats. Vessels operating off the coast of Carteret County were unable to find calico scallops in commercial quantities during 1964.

Fish kills. South Carolina was again plagued with a series of fish kills. On May 15, and for several days thereafter, a heavy kill of fiddler crabs and shrimp occurred in the vicinity of the Isle of Palms. Oyster samples taken from the same waters by the U. S. Public Health Service were found to contain small amounts of BHC (benzene hexachloride) and shipments of oysters from the area were prohibited for 15 days. Evidence indicated that the kill resulted from the use of BHC in a mosquito abatement program. A large fish kill occurred in the Ashley River and Charleston Harbor on June 21, and a smaller one in the Ashley River on November 18. A Bears Bluff Laboratory crew collected samples of dead fresh-water catfish, striped bass, croaker, spot, and menhaden which were forwarded to the South Carolina Water Pollution Control Authority for analysis to determine the causative agent in the kill.

ARA project. During June 1964, an Area Redevelopment Administration seafood processing project was started in Carteret County, N. C. The project involved the collection of background information on the possibilities for expanding the processing of the wide variety of marine species available in the area.

Other information. Condensed summary data on the operating units and catch of the South Atlantic section appearing on the following pages have been previously published in Current Fishery Statistics No. 3910. Seasonal variations in the catch of fish and shellfish in North Carolina, South Carolina, Georgia, and Florida can be ascertained from the 1964 monthly and annual landing bulletins issued for each of these States. Additional data on many aspects of the South Atlantic fisheries may be found in the daily, monthly, and annual reports published by the Hampton, Va., Fishery Market News office of the Bureau.

Acknowledgments. The following organizations assisted the Bureau to collect the data appearing in this section: North Carolina Department of Conservation and Development, Division of Commercial Fisheries; South Carolina Wildlife Resources Department, Division of Commercial Fisheries; Georgia Game and Fish Commission, Coastal Fisheries Division; and Florida State Board of Conservation.


NORTH CAROLINA
Beaufort
Southport
SOUTH CAROLINA
GEORGIA
Beaufort
Savannah
Brunswick
Jacksonville
FLORIDA
Fort Lauderdale
Miami
ATLANTIC OCEAN

SOUTH ATLANTIC STATES

SOUTH ATLANTIC FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF CATCH, 1964

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

STATE	FISH		SHELLFISH, ETC.		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NORTH CAROLINA	209	4	30	4	239	8
SOUTH CAROLINA	7	1	15	2	22	3
GEORGIA	1	(1)	17	3	18	3
FLORIDA, EAST COAST	44	4	13	3	57	7
TOTAL	261	9	75	12	336	21

1/ LESS THAN $500,000.

NOTE:--THE CATCH FOR THE INLAND LAKES OF FLORIDA IS INCLUDED WITH THE CATCH FOR THE EAST COAST OF FLORIDA. FOR THE PURPOSE OF THIS REPORT THE "EAST COAST OF FLORIDA" INCLUDES THE COASTAL COUNTIES FROM NASSAU TO DADE, INCLUSIVE.

SUMMARY OF OPERATING UNITS, 1964

ITEM	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA, EAST COAST	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	2,027	386	667	852	3,442
ON BOATS AND SHORE:					
REGULAR	2,346	724	480	1,673	5,223
CASUAL	1,178	418	593	430	2,616
TOTAL	5,551	1,528	1,740	2,955	11,281
VESSELS, MOTOR	481	185	333	351	1,108
GROSS TONNAGE	22,931	4,731	10,343	12,863	42,230
BOATS:					
MOTOR	2,194	814	611	1,681	5,297
OTHER	601	10	56	37	704
GEAR:					
HAUL SEINES:					
COMMON	49	10	4	14	77
LENGTH, YARDS	13,855	2,500	625	5,450	22,430
LONG	35	-	-	-	35
LENGTH, YARDS	48,950	-	-	-	48,950
PURSE SEINES:					
MENHADEN	60	-	-	3	63
LENGTH, YARDS	24,120	-	-	1,200	25,320
OTHER	-	-	-	2	2
LENGTH, YARDS	-	-	-	400	400
BAG NETS	33	-	-	-	33
YARDS AT MOUTH	825	-	-	-	825
OTTER TRAWLS:					
CRAB	251	19	164	-	432
YARDS AT MOUTH	3,842	375	2,584	-	6,774
FISH	96	-	-	-	96
YARDS AT MOUTH	2,364	-	-	-	2,364
SHRIMP	840	377	819	608	2,214
YARDS AT MOUTH	14,111	7,319	11,048	9,188	35,017
POUND NETS, FISH	604	-	-	9	613
FYKE AND HOOP NETS, FISH	80	-	-	320	400
POTS AND TRAPS:					
CRAB:					
BLUE	28,500	11,795	9,635	13,600	63,530
OTHER	-	-	-	5,500	5,500
EEL	550	-	-	200	750
FISH	4,846	2,679	446	7,490	15,461
LOBSTER, SPINY	-	-	-	40,100	40,100
TURTLE	80	-	-	-	80
GILL NETS:					
ANCHOR, SET OR STAKE	2,382	25	53	26	2,483
SQUARE YARDS	742,480	18,750	9,577	28,350	798,257
DRIFT:					
SHAD	152	77	253	14	496
SQUARE YARDS	38,400	26,000	128,430	19,860	212,690
OTHER	76	24	-	-	100
SQUARE YARDS	30,480	2,740	-	-	33,220
RUNAROUND	158	-	-	294	452
SQUARE YARDS	135,860	-	-	593,830	729,690
TRAMMEL NETS	-	-	-	11	11
SQUARE YARDS	-	-	-	10,200	10,200

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1964 - Continued

ITEM	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA, EAST COAST	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
GEAR - CONTINUED:					
LINES:					
HAND.	324	10	26	582	942
HOOKS	347	20	52	984	1,403
TROLL	-	-	16	458	474
HOOKS	-	-	16	458	474
LONG OR SET WITH HOOKS.	37	-	401	602	1,040
HOOKS	22,016	-	20,050	647,625	689,691
TROT WITH BAITS	327	48	2	16	393
BAITS	507,000	33,500	1,300	11,000	552,800
DIP NETS:					
COMMON.	100	-	-	1	101
DROP.	-	-	1,875	-	1,875
CAST NETS	-	8	7	4	19
SPEARS.	117	5	-	3	125
DREDGES:					
CLAM.	21	-	-	-	21
YARDS AT MOUTH. . . .	28	-	-	-	28
OYSTER, COMMON.	164	-	-	-	164
YARDS AT MOUTH. . . .	220	-	-	-	220
SCALLOP	80	-	-	-	80
YARDS AT MOUTH. . . .	80	-	-	-	80
TONGS AND GRABS, OYSTER .	101	238	26	9	374
RAKES	218	46	-	5	269
HOOKS, SPONGE	-	-	-	3	3

NOTE:--THE OPERATING UNITS FOR THE INLAND LAKES OF FLORIDA ARE INCLUDED WITH THE DATA FOR THE EAST COAST OF FLORIDA.

CATCH BY STATES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES.	7,561	77	-	-	-	-
BLUEFISH.	515	64	316	38	-	-
BUTTERFISH.	130	9	-	-	-	-
CABIO	12	1	-	-	-	-
CARP.	224	7	-	-	2	(1)
CATFISH AND BULLHEADS . . .	1,274	127	1,434	212	58	17
CROAKER	1,867	139	10	1	(1)	(1)
DRUM:						
BLACK	53	3	12	1	1	(1)
RED	102	9	12	2	-	-
EELS, COMMON.	53	3	-	-	6	(1)
FLOUNDERS	2,450	481	46	12	23	2
GROUPERS.	1	(1)	(1)	(1)	(1)	(1)
GRUNTS.	1	(1)	-	-	-	-
HARVESTFISH	17	1	-	-	-	-
HICKORY SHAD.	233	9	2	(1)	1	(1)
KING MACKEREL	88	18	(1)	(1)	(1)	(1)
KING WHITING OR "KINGFISH".	1,141	96	246	69	91	9
MENHADEN.	172,992	2,249	-	-	-	-
MULLET.	1,220	90	680	48	5	1
PIGFISH	87	7	-	-	-	-
POMPANO	6	2	30	13	-	-
SAND PERCH.	16	(1)	-	-	-	-
SCUP OR PORGY	492	26	15	1	-	-
SEA BASS.	906	122	234	31	1	(1)
SEA TROUT OR WEAKFISH:						
GRAY.	1,966	134	7	(1)	-	-
SPOTTED	205	72	60	20	2	1
SHAD.	640	127	120	28	314	100
SHARKS, UNCLASSIFIED. . . .	14	1	19	2	-	-
SHEEPSHEAD, SALT-WATER. . .	10	1	4	(1)	(1)	(1)
SNAPPER:						
RED	(1)	(1)	8	3	(1)	(1)
VERMILION	-	-	(1)	(1)	-	-
UNCLASSIFIED.	-	-	-	-	1	(1)
SPADEFISH	2	(1)	-	-	-	-
SPANISH MACKEREL.	78	12	3	(1)	-	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA	
FISH - CONTINUED	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
SPOT.	1,251	111	3,166	213	3	(1)
STRIPED BASS.	714	117	-	-	3	1
STURGEON.	34	7	64	10	2	(1)
SUCKERS	-	-	-	-	3	(1)
SWELLFISH	282	8	-	-	-	-
SWORDFISH	483	233	-	-	-	-
TILEFISH.	1	(1)	-	-	-	-
TUNA, BLUEFIN	33	3	-	-	-	-
WHITE PERCH	340	36	-	-	-	-
YELLOW PERCH.	60	5	-	-	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD .	11,203	112	510	10	155	3
TOTAL FISH.	208,757	4,519	6,998	714	671	134
SHELLFISH, ETC.						
CRABS, BLUE:						
HARD.	24,092	1,275	9,436	375	11,532	472
SOFT AND PEELER	70	33	-	-	-	-
TOTAL CRABS	24,162	1,308	9,436	375	11,532	472
SHRIMP.	4,279	1,503	2,632	861	5,939	2,298
CLAMS, HARD, PUBLIC	255	98	146	54	-	-
OCTOPUS	1	(1)	-	-	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING.	249	138	-	-	-	-
FALL.	401	235	-	-	-	-
PRIVATE:						
SPRING.	37	20	1,679	672	140	49
FALL.	41	22	832	325	56	20
TOTAL OYSTERS	728	415	2,511	997	196	69
SCALLOPS, BAY	340	173	-	-	-	-
SQUID	40	4	-	-	-	-
TURTLES, SNAPPER.	17	3	-	-	-	-
TOTAL SHELLFISH, ETC.	29,822	3,504	14,725	2,287	17,667	2,839
GRAND TOTAL	238,579	8,023	21,723	3,001	18,338	2,973

SPECIES	FLORIDA, EAST COAST		TOTAL	
FISH	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES.	2	(1)	7,563	77
AMBERJACK	7	(1)	7	(1)
BALLYHOO.	30	4	30	4
BARRACUDA	1	(1)	1	(1)
BLUEFISH.	1,202	111	2,033	213
BLUE RUNNER	50	2	50	2
BONITO.	(1)	(1)	(1)	(1)
BUTTERFISH.	-	-	130	9
CABIO	2	(1)	14	1
CARP.	-	-	226	7
CATFISH AND BULLHEADS . . .	12,069	1,757	14,835	2,113
CREVALLE.	114	3	114	3
CROAKER	101	15	1,978	155
DOLPHIN	6	1	6	1
DRUM:				
BLACK	112	9	178	13
RED	119	22	233	33
EELS, COMMON.	122	6	181	9
FLOUNDERS	189	31	2,708	526
GROUPERS.	214	27	215	27
GRUNTS.	24	2	25	2
HARVESTFISH	-	-	17	1
HICKORY SHAD.	-	-	236	9
HOGFISH	2	(1)	2	(1)
JEWFISH	32	2	32	2
KING MACKEREL	2,020	274	2,108	292
KING WHITING OR "KINGFISH".	1,364	120	2,842	294
MENHADEN.	17,154	187	190,146	2,436
MOJARRA	181	13	181	13

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SOUTH ATLANTIC FISHERIES

CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	FLORIDA, EAST COAST		TOTAL	
FISH - CONTINUED	QUANTITY	VALUE	QUANTITY	VALUE
MULLET	2,849	137	4,754	276
PERMIT	(1)	(1)	(1)	(1)
PIGFISH	5	(1)	92	7
POMPANO	140	94	176	109
SAND PERCH	-	-	16	(1)
SCUP OR PORGY	36	4	543	31
SEA BASS	49	6	1,190	159
SEA CATFISH	8	1	8	1
SEA TROUT OR WEAKFISH:				
GRAY	107	15	2,080	149
SPOTTED	764	206	1,031	299
SHAD	613	60	1,687	315
SHARKS, UNCLASSIFIED	-		33	3
SHEEPSHEAD, SALT-WATER	96	8	110	9
SNAPPER:				
MANGROVE	85	17	85	17
MUTTON	65	16	65	16
RED	542	194	550	197
VERMILION	5	1	5	1
YELLOWTAIL	144	38	144	38
UNCLASSIFIED	-	-	1	(1)
SPADEFISH	-	-	2	(1)
SPANISH MACKEREL	2,002	169	2,083	181
SPOT	952	126	5,372	450
STRIPED BASS	-	-	717	118
STURGEON	-	-	100	17
SUCKERS	-	-	3	(1)
SWELLFISH	-	-	282	8
SWORDFISH	-	-	483	233
TILEFISH	-	-	1	(1)
TRIGGERFISH	6	(1)	6	(1)
TRIPLETAIL	4	(1)	4	(1)
TUNA, BLUEFIN	-	-	33	3
WARSAW	18	2	18	2
WHITE PERCH	-	-	340	36
YELLOW PERCH	-	-	60	5
UNCLASSIFIED:				
FOR FOOD	263	18	263	18
BAIT, REDUCTION, AND ANIMAL FOOD	659	14	12,527	139
TOTAL FISH	44,529	3,712	260,955	9,079
SHELLFISH, ETC.				
CRABS:				
BLUE:				
HARD	6,951	448	52,011	2,570
SOFT AND PEELER	2	1	72	34
STONE	191	84	191	84
TOTAL CRABS	7,144	533	52,274	2,688
LOBSTERS, SPINY	786	351	786	351
SHRIMP	4,491	1,971	17,341	6,633
CLAMS, HARD, PUBLIC	1	(1)	402	152
CONCHS	(1)	(1)	(1)	(1)
OCTOPUS	-	-	1	(1)
OYSTERS, MARKET:				
PUBLIC:				
SPRING	20	6	269	144
FALL	31	9	432	244
PRIVATE:				
SPRING	25	8	1,881	749
FALL	16	5	945	372
TOTAL OYSTERS	92	28	3,527	1,509
SCALLOPS, BAY	-	-	340	173
SQUID	4	1	44	5
TURTLES:				
SNAPPER	-	-	17	3
SOFT-SHELL	310	25	310	25
SPONGES:				
SHEEPSWOOL	(1)	1	(1)	1
YELLOW	(1)	(1)	(1)	(1)
TOTAL SHELLFISH, ETC.	12,828	2,910	75,042	11,540
GRAND TOTAL	57,357	6,622	335,997	20,619

1/ LESS THAN 500 POUNDS OR $500.

NOTE:--STATISTICS ON THE CATCH ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS. CLAMS AND OYSTERS ARE REPORTED IN WEIGHT OF TOTAL MEATS. SCALLOPS ARE REPORTED IN WEIGHT OF EDIBLE MEATS.

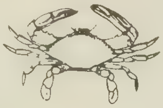
CATCH OF CERTAIN SHELLFISH, 1964

(NUMBER AND BUSHELS)

SPECIES		NORTH CAROLINA		SOUTH CAROLINA		GEORGIA	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CRABS, BLUE:							
HARD.	NUMBER	72,274,500	$1,275,164	28,308,300	$375,761	23,063,800	$471,819
SOFT AND PEELER . .	DO	209,100	32,924	-	-	-	-
CLAMS, HARD, PUBLIC .	U.S. STD. BUSHEL	29,189	98,217	16,720	53,803	-	-
OYSTERS, MARKET:							
PUBLIC:							
SPRING.	DO	53,369	137,816	-	-	-	-
FALL.	DO	81,984	234,449	-	-	-	-
PRIVATE:							
SPRING.	DO	8,186	20,470	595,496	671,666	38,536	48,826
FALL.	DO	9,073	22,040	293,922	325,303	23,169	19,710
SCALLOPS, BAY	DO	56,617	172,622	-	-	-	-

SPECIES		FLORIDA, EAST COAST		TOTAL	
		QUANTITY	VALUE	QUANTITY	VALUE
CRABS:					
BLUE:					
HARD.	NUMBER	13,901,600	$447,623	137,548,200	$2,570,367
SOFT AND PEELER .	DO	8,400	717	217,500	33,641
STONE	DO	191,000	83,870	191,000	83,870
CLAMS, HARD, PUBLIC .	U.S. STD. BUSHEL	125	359	46,034	152,379
OYSTERS, MARKET:					
PUBLIC:					
SPRING.	DO	4,545	6,000	57,914	143,816
FALL.	DO	8,556	9,252	90,540	243,701
PRIVATE:					
SPRING.	DO	5,773	7,620	647,991	748,582
FALL.	DO	4,472	4,830	330,636	371,883
SCALLOPS, BAY	DO	-	-	56,617	172,622

NOTE:--THE CAPACITY OF A U. S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.



AVERAGE WEIGHTS OF CERTAIN SHELLFISH, 1964

SPECIES		NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA, EAST COAST
		QUANTITY	QUANTITY	QUANTITY	QUANTITY
CRABS:					
BLUE:					
HARD.	NUMBER PER POUND	3.00	3.00	2.00	2.00
SOFT AND PEELER .	DO	3.00	-	-	4.00
STONE	DO	-	-	-	1.00
CLAMS, HARD, PUBLIC .	LBS. MEATS PER U.S. STANDARD BUSHEL	8.75	8.75	-	8.00
OYSTERS, MARKET:					
PUBLIC:					
SPRING.	DO	4.66	-	-	4.40
FALL.	DO	4.89	-	-	3.60
PRIVATE:					
SPRING.	DO	4.52	2.82	3.62	4.40
FALL.	DO	4.53	2.83	2.43	3.60
SCALLOPS, BAY	DO	6.00	-	-	-

NOTE:--THE CAPACITY OF A U. S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

MANUFACTURED FISHERY PRODUCTS, 1964

ITEM		NORTH CAROLINA		SOUTH CAROLINA	
		QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES:					
CANNED:					
FISH	STANDARD CASES	(1)	(1)	-	-
ROE	DO	8,550	$103,700	-	-
SALTED	POUNDS	4,137,500	87,075	-	-
BLUEFISH FILLETS, FRESH AND FROZEN	DO	(1)	(1)	-	-
FLOUNDERS:					
FILLETS, FRESH OR FROZEN	DO	(1)	(1)	-	-
SPECIALTIES, FROZEN (BREADED AND STUFFED)	DO	(1)	(1)	-	-
MENHADEN:					
MEAL	TONS	17,917	2,363,343	-	-
OIL	1,000 POUNDS	11,784	988,108	-	-
SOLUBLES	TONS	7,203	388,950	-	-
MULLET, SALTED	POUNDS	(1)	(1)	-	-
SCUP OR PORGY FILLETS, FRESH	DO	(1)	(1)	-	-
SEA BASS FILLETS, FRESH	DO	(1)	(1)	-	-
SEA TROUT FILLETS, FRESH AND FROZEN	DO	(1)	(1)	-	-
SPANISH MACKEREL FILLETS, FRESH AND FROZEN	DO	(1)	(1)	-	-
STRIPED BASS FILLETS, FRESH	DO	(1)	(1)	-	-
CRABS:					
BLUE:					
FRESH AND FROZEN:					
COOKED MEAT	DO	1,928,781	2,380,061	588,577	$748,252
SPECIALTIES (AU GRATIN, CAKES, DEVILED, ETC.)	DO	(1)	(1)	(1)	(1)
CANNED:					
REGULAR (MEAT)	STANDARD CASES	(1)	(1)	(1)	(1)
SPECIALTIES (DEVILED)	DO	-	-	(1)	(1)
MEAL AND SCRAP	TONS	(1)	(1)	-	-
SHRIMP, FRESH AND FROZEN:					
RAW, HEADLESS	POUNDS	(1)	(1)	(1)	(1)
PEELED AND DEVEINED:					
RAW	DO	-	-	(1)	(1)
COOKED	DO	-	-	(1)	(1)
BREADED, RAW AND COOKED	DO	(1)	(1)	(1)	(1)
SPECIALTIES (COCKTAILS, CREOLES, STUFFED, ETC.)	DO	(1)	(1)	-	-
CLAMS, HARD, SHUCKED, FRESH	GALLONS	(1)	(1)	-	-
OYSTERS:					
SHUCKED, FRESH	DO	63,084	423,775	92,274	572,473
BREADED, FRESH AND FROZEN	POUNDS	(1)	(1)	(1)	(1)
CANNED:					
REGULAR	STANDARD CASES	-	-	(1)	(1)
SPECIALTIES (STEWS)	DO	-	-	(1)	(1)
SCALLOPS:					
BAY, SHUCKED, FRESH	GALLONS	(1)	(1)	-	-
SEA, BREADED, RAW AND COOKED	POUNDS	(1)	(1)	-	-
UNCLASSIFIED:					
FRESH AND FROZEN PACKAGED:					
FILLETS, STEAKS, STICKS, PORTIONS, AND OTHER FISH AND SHELLFISH	DO	1,794,585	503,319	38,400	55,485
CANNED	STANDARD CASES	25,338	383,596	76,237	1,197,972
CURED	POUNDS	(2)	(2)	-	-
INDUSTRIAL	-	-	203,203	-	-
TOTAL	-	-	7,825,130	-	2,574,182

ITEM		GEORGIA		FLORIDA, EAST COAST	
		QUANTITY	VALUE	QUANTITY	VALUE
BLUEFISH FILLETS, FRESH AND FROZEN	POUNDS	-	-	(1)	(1)
BUTTERFISH, SMOKED	DO	-	-	(1)	(1)
CHUBS, SMOKED	DO	-	-	(1)	(1)
FLOUNDER FILLETS, FRESH AND FROZEN	DO	-	-	(1)	(1)
GROUPER FILLETS, FRESH AND FROZEN	DO	-	-	114,748	$48,599
KING MACKEREL:					
STEAKS, FROZEN	DO	-	-	92,000	34,670
CANNED SPECIALTIES (FISH PASTE)	STANDARD CASES	-	-	(1)	(1)
SMOKED	POUNDS	-	-	(1)	(1)
MENHADEN:					
MEAL	TONS	-	-	(1)	(1)
OIL	1,000 POUNDS	-	-	(1)	(1)
SOLUBLES	TONS	-	-	(1)	(1)

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		GEORGIA		FLORIDA, EAST COAST	
		QUANTITY	VALUE	QUANTITY	VALUE
POMPANO FILLETS, FROZEN	POUNDS	-	-	(1)	(1)
SABLEFISH, SMOKED	DO	-	-	(1)	(1)
SALMON, SMOKED	DO	-	-	(1)	(1)
SEA TROUT FILLETS, FRESH AND FROZEN	DO	-	-	(1)	(1)
SNAPPER, RED FILLETS, FROZEN	DO	-	-	223,859	$151,943
SPANISH MACKEREL FILLETS, FRESH AND FROZEN	DO	-	-	128,000	47,530
STURGEON, SMOKED	DO	-	-	(1)	(1)
WHITEFISH, SMOKED	DO	-	-	(1)	(1)
CRABS:					
BLUE:					
FRESH AND FROZEN:					
COOKED MEAT	DO	1,438,120	$1,452,792	1,121,079	1,489,999
SPECIALTIES (AU GRATIN, CAKES, DEVILED, ETC.)	DO	(1)	(1)	490,901	338,627
MEAL AND SCRAP	TONS	(1)	(1)	(1)	(1)
BACKS, CLEANED AND POLISHED	-	-	-	-	(1)
STONE, CLAWS, COOKED FROZEN	POUNDS	-	-	(1)	(1)
LOBSTERS, SPINY, FROZEN:					
WHOLE, COOKED	DO	-	-	831,840	601,958
TAILS, RAW	DO	-	-	432,268	788,946
SHRIMP, FRESH AND FROZEN:					
RAW, HEADLESS	DO	923,696	701,165	5,713,007	5,876,805
PEELED AND DEVEINED, RAW	DO	4,090,180	4,964,440	147,268	174,120
BREADED, RAW AND COOKED	DO	15,429,933	9,460,528	11,136,399	8,609,847
SPECIALTIES (COCKTAILS, CREOLES, STUFFED, ETC.)	DO	1,232,797	927,277	(1)	(1)
CLAMS, HARD, SHUCKED, FRESH	GALLONS	-	-	(1)	(1)
OYSTERS:					
SHUCKED, FRESH	DO	21,448	129,613	7,734	42,768
BREADED, FRESH AND FROZEN	POUNDS	(1)	(1)	705,815	765,085
SHELL GRIT AND LIME	TONS	-	-	(1)	(1)
SCALLOPS, SEA, BREADED, RAW AND COOKED	POUNDS	812,708	461,465	(1)	(1)
TURTLE STEAKS, FROZEN	DO	-	-	(1)	(1)
UNCLASSIFIED:					
FRESH AND FROZEN PACKAGED:					
FILLETS, STEAKS, STICKS, PORTIONS, AND OTHER FISH AND SHELLFISH	DO	7,294,071	2,942,336	1,091,908	679,876
CANNED	STANDARD CASES	-	-	(2)	(2)
CURED	POUNDS	-	-	630,760	763,987
INDUSTRIAL	-	-	(2)	-	646,368
TOTAL	-	-	21,039,616	-	21,061,128

1/ INCLUDED IN UNCLASSIFIED ITEMS. 2/ INCLUDED WITH UNCLASSIFIED FISH AND SHELLFISH.

NOTE:--SOME PRODUCTS MAY HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE CATCH WITHIN THE STATE.

SUMMARY OF MANUFACTURED PRODUCTS, 1964

(VALUE IN THOUSANDS OF DOLLARS)

ITEM		QUANTITY	VALUE
PACKAGED, FRESH AND FROZEN:			
NOT BREADED:			
FISH	1,000 POUNDS	2,034	530
SHELLFISH	DO	19,428	20,611
BREADED:			
FISH	DO	6,856	2,552
SHELLFISH	DO	28,790	19,874
SPECIALTIES, FISH AND SHELLFISH (NOT BREADED AND BREADED)	DO	2,131	1,711
CANNED	1,000 STANDARD CASES	111	1,724
CURED	1,000 POUNDS	4,943	883
INDUSTRIAL	-	-	4,615
TOTAL	-	-	52,500

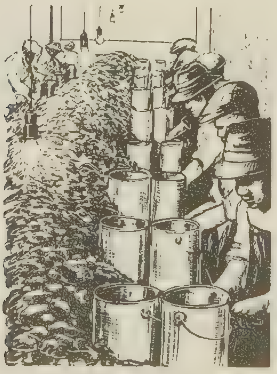
VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1964

(THOUSANDS OF DOLLARS)

STATE	VALUE
NORTH CAROLINA	7,825
SOUTH CAROLINA	2,574
GEORGIA	21,040
FLORIDA, EAST COAST	21,061
TOTAL	52,500

WHOLESALING AND MANUFACTURING, 1964

ITEM	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA, EAST COAST	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING:					
ESTABLISHMENTS	161	71	54	137	423
PERSONS ENGAGED:					
AVERAGE FOR SEASON	2,582	987	2,775	1,804	8,148
AVERAGE FOR YEAR	1,242	561	2,034	1,550	5,387



SHUCKING OYSTERS

SOUTH ATLANTIC FISHERIES
NORTH CAROLINA
OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES		PURSE SEINES, MENHADEN	BAG NETS	OTTER TRAWLS		
	COMMON	LONG			CRAB	FISH	SHRIMP
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:							
ON VESSELS	-	57	1,014	-	96	200	814
ON BOATS AND SHORE:							
REGULAR	80	134	-	-	219	40	543
CASUAL	219	-	-	33	43	-	4
TOTAL	299	191	1,014	33	358	240	1,361
VESSELS, MOTOR	-	19	60	-	48	76	371
GROSS TONNAGE	-	158	13,694	-	531	2,973	7,832
BOATS:							
MOTOR	29	50	118	33	201	20	349
OTHER	39	65	59	-	-	-	-
GEAR:							
NUMBER	49	35	60	33	251	96	840
LENGTH, YARDS	13,855	48,950	24,120	-	-	-	-
YARDS AT MOUTH	-	-	-	825	3,842	2,364	14,111

ITEM	POUND NETS, FISH	FYKE AND HOOP NETS, FISH	POTS AND TRAPS				GILL NETS
			CRAB	EEL	FISH	TURTLE	ANCHOR, SET OR STAKE
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:							
ON VESSELS	-	-	-	-	63	-	20
ON BOATS AND SHORE:							
REGULAR	99	4	431	-	63	-	358
CASUAL	76	6	82	25	72	9	300
TOTAL	175	10	513	25	198	9	678
VESSELS, MOTOR	-	-	-	-	31	-	8
GROSS TONNAGE	-	-	-	-	453	-	63
BOATS:							
MOTOR	73	6	438	25	86	9	439
OTHER	-	-	-	-	48	-	88
GEAR:							
NUMBER	604	80	28,500	550	4,846	80	2,382
SQUARE YARDS	-	-	-	-	-	-	742,480

ITEM	GILL NETS - CONTINUED			LINES			DIP NETS, COMMON
	DRIFT		RUNAROUND	HAND 1/	LONG OR SET WITH HOOKS	TROT WITH BAITS	
	SHAD	OTHER					
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:							
ON VESSELS	-	-	-	14	145	-	-
ON BOATS AND SHORE:							
REGULAR	-	-	221	-	-	249	-
CASUAL	152	76	57	21	8	80	100
TOTAL	152	76	278	35	153	329	100
VESSELS, MOTOR	-	-	-	6	29	-	-
GROSS TONNAGE	-	-	-	201	1,533	-	-
BOATS:							
MOTOR	86	20	147	14	8	322	100
OTHER	66	56	18	-	-	5	-
GEAR:							
NUMBER	152	76	158	324	37	327	100
SQUARE YARDS	38,400	30,480	135,860	-	-	-	-
HOOKS OR BAITS	-	-	-	347	22,016	507,000	-

ITEM	SPEARS	DREDGES			TONGS, OYSTER	RAKES	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
		CLAM	OYSTER, COMMON	SCALLOP				
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:								
ON VESSELS	-	-	18	-	-	-	-	2,027
ON BOATS AND SHORE:								
REGULAR	-	31	286	40	20	-	80	2,346
CASUAL	117	-	12	-	81	218	175	1,178
TOTAL	117	31	316	40	101	218	255	5,551
VESSELS, MOTOR	-	-	9	-	-	-	-	481
GROSS TONNAGE	-	-	76	-	-	-	-	22,931
BOATS:								
MOTOR	-	21	155	40	57	85	105	2,194
OTHER	117	-	-	-	44	133	150	601
GEAR:								
NUMBER	117	21	164	80	101	218	-	-
YARDS AT MOUTH	-	28	220	80	-	-	-	-

1/ APPROXIMATELY 200 LINES WERE FISHED FROM RIVER BANKS FOR SNAPPER TURTLES.

NORTH CAROLINA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES				PURSE SEINES		BAG NETS	
	COMMON		LONG					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	532,000	$5,320	-	-	-	-	-	-
BLUEFISH	216,500	24,145	144,500	$20,019	-	-	-	-
BUTTERFISH	6,700	469	34,000	2,576	-	-	-	-
CABIO	500	30	10,300	618	-	-	-	-
CARP	73,500	2,233	-	-	-	-	-	-
CATFISH AND BULLHEADS	49,000	4,900	-	-	-	-	-	-
CROAKER	54,900	4,082	309,500	24,850	-	-	-	-
DRUM:						-		
BLACK	-	-	2,600	156	-	-	-	-
RED	17,000	1,530	84,400	7,483	-	-	-	-
FLOUNDERS	25,500	5,132	161,200	34,022	-	-	-	-
HARVESTFISH	-	-	13,500	1,088	-	-	-	-
HICKORY SHAD	2,000	80	-	-	-	-	-	-
KING MACKEREL	2,500	500	6,400	1,280	-	-	-	-
KING WHITING OR "KINGFISH"	51,200	4,544	82,800	7,590	-	-	-	-
MENHADEN	-	-	27,600	359	172,947,600	$2,248,319	-	-
MULLET	777,900	51,192	-	-	-	-	-	-
PIGFISH	8,800	704	29,500	2,360	-	-	-	-
POMPANO	4,000	1,000	2,300	575	-	-	-	-
SEA TROUT OR WEAKFISH:								
GRAY	36,000	2,695	97,300	7,620	-	-	-	-
SPOTTED	80,400	28,140	62,700	21,945	-	-	-	-
SHAD	21,700	4,340	-	-	-	-	-	-
SHARKS, UNCLASSIFIED	-	-	3,500	350	-	-	-	-
SHEEPSHEAD, SALT-WATER	600	48	2,800	224	-	-	-	-
SPADEFISH	-	-	2,100	168	-	-	-	-
SPANISH MACKEREL	15,000	2,250	33,600	5,040	-	-	-	-
SPOT	443,800	33,305	528,500	52,678	-	-	-	-
STRIPED BASS	131,600	21,581	-	-	-	-	-	-
STURGEON	2,000	400	4,900	980	-	-	-	-
WHITE PERCH	19,100	2,071	-	-	-	-	-	-
YELLOW PERCH	5,100	459	-	-	-	-	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	75,000	750	-	-	-	-
SHRIMP	-	-	-	-	-	-	210,000	$64,500
TURTLES, SNAPPER	800	144	-	-	-	-	-	-
TOTAL	2,578,100	201,294	1,719,000	192,731	172,947,600	2,248,319	210,000	64,500

SPECIES	OTTER TRAWLS					
	CRAB		FISH		SHRIMP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	-	-	2,500	$275	-	-
BUTTERFISH	-	-	60,900	4,277	-	-
CROAKER	-	-	1,284,600	92,834	54,000	$3,780
DRUM, BLACK	-	-	49,800	2,988	100	6
FLOUNDERS	-	-	1,861,000	368,700	217,400	34,110
KING WHITING OR "KINGFISH"	-	-	729,500	59,155	120,400	9,865
PIGFISH	-	-	34,200	2,831	8,000	640
SAND PERCH	-	-	16,100	497	300	9
SCUP OR PORGY	-	-	478,300	25,151	-	-
SEA BASS	-	-	613,400	77,902	-	-
SEA TROUT OR WEAKFISH, GRAY	-	-	1,558,800	102,897	61,700	3,719
SHARKS, UNCLASSIFIED	-	-	10,400	1,040	-	-
SHEEPSHEAD, SALT-WATER	-	-	3,000	240	-	-
SPOT	-	-	92,400	6,892	20,000	1,400
STURGEON	-	-	1,400	280	-	-
SWELLFISH	-	-	260,900	7,827	17,700	531
TILEFISH	-	-	100	8	600	48
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	5,563,900	55,639	5,564,000	55,640
CRABS, BLUE:						
HARD	4,700,000	$201,500	-	-	1,350,000	59,500
SOFT AND PEELER	63,600	30,057	-	-	-	-
SHRIMP	-	-	-	-	4,069,000	1,438,739
OCTOPUS	-	-	-	-	1,000	150
SQUID	-	-	37,400	3,550	3,100	310
TOTAL	4,763,600	231,557	12,658,600	812,983	11,487,300	1,608,447

(CONTINUED ON NEXT PAGE)

NORTH CAROLINA - CATCH BY GEAR, 1964 - Continued

SPECIES	POUND NETS		FYKE AND HOOP NETS		POTS AND TRAPS			
					CRAB		EEL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	5,883,300	$60,104	-	-	-	-	-	-
BLUEFISH	3,300	429	-	-	-	-	-	-
BUTTERFISH	28,000	2,040	-	-	-	-	-	-
CABIO	1,200	72	-	-	-	-	-	-
CARP	60,600	1,818	63,900	$1,917	-	-	-	-
CATFISH AND BULLHEADS	203,000	20,300	32,800	3,280	-	-	-	-
CROAKER	85,000	6,900	-	-	-	-	-	-
DRUM, BLACK	200	12	-	-	-	-	-	-
EELS, COMMON	4,500	225	-	-	-	-	47,900	$2,395
FLOUNDERS	57,100	11,540	-	-	-	-	-	-
HARVESTFISH	3,500	280	-	-	-	-	-	-
HICKORY SHAD	100,100	3,741	-	-	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY	44,100	3,088	-	-	-	-	-	-
SHAD	274,500	54,392	-	-	-	-	-	-
SPANISH MACKEREL	8,500	1,275	-	-	-	-	-	-
SPOT	10,000	800	-	-	-	-	-	-
STRIPED BASS	154,400	24,878	-	-	-	-	-	-
STURGEON	6,200	1,240	-	-	-	-	-	-
WHITE PERCH	174,700	18,717	-	-	-	-	-	-
YELLOW PERCH	15,500	1,395	34,800	3,132	-	-	-	-
CRABS, BLUE, HARD	-	-	-	-	13,296,500	$756,809	-	-
TOTAL	7,117,700	213,246	131,500	8,329	13,296,500	756,809	47,900	2,395

SPECIES	POTS AND TRAPS - CONTINUED				GILL NETS	
	FISH		TURTLE		ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	-	-	1,069,100	$10,691
BLUEFISH	-	-	-	-	63,400	8,239
CARP	25,900	$777	-	-	-	-
CATFISH AND BULLHEADS	880,300	88,030	-	-	6,500	650
CROAKER	-	-	-	-	36,000	3,080
DRUM, RED	-	-	-	-	100	9
EELS, COMMON	600	30	-	-	-	-
FLOUNDERS	-	-	-	-	8,000	1,600
GRUNTS	1,200	113	-	-	-	-
HICKORY SHAD	-	-	-	-	126,500	4,584
KING WHITING OR "KINGFISH"	-	-	-	-	101,300	9,305
MENHADEN	-	-	-	-	16,500	214
MULLET	-	-	-	-	229,000	20,542
PIGFISH	1,100	88	-	-	-	-
SCUP OR PORGY	5,300	530	-	-	-	-
SEA BASS	240,100	36,070	-	-	-	-
SEA TROUT OR WEAKFISH:						
GRAY	-	-	-	-	68,600	5,296
SPOTTED	-	-	-	-	15,300	5,355
SHAD	-	-	-	-	324,100	64,820
SPANISH MACKEREL	-	-	-	-	3,700	555
SPOT	-	-	-	-	82,000	8,200
STRIPED BASS	-	-	-	-	422,400	69,311
STURGEON	-	-	-	-	600	120
SWELLFISH	-	-	-	-	3,000	90
WHITE PERCH	-	-	-	-	141,500	15,038
YELLOW PERCH	-	-	-	-	4,500	406
TURTLES, SNAPPER	-	-	9,500	$1,710	-	-
TOTAL	1,154,500	125,638	9,500	1,710	2,722,100	228,105

SPECIES	GILL NETS - CONTINUED					
	DRIFT				RUNAROUND	
	SHAD		OTHER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	76,500	$765	-	-
BLUEFISH	-	-	-	-	79,500	$10,585
CATFISH AND BULLHEADS	-	-	1,400	140	-	-
CROAKER	-	-	-	-	42,900	3,540
HICKORY SHAD	-	-	4,300	172	-	-
KING MACKEREL	-	-	-	-	12,000	2,400
KING WHITING OR "KINGFISH"	-	-	-	-	56,100	5,210
MULLET	-	-	3,000	300	210,000	18,094
PIGFISH	-	-	-	-	5,000	400

(CONTINUED ON NEXT PAGE)

NORTH CAROLINA - CATCH BY GEAR, 1964 - Continued

SPECIES	GILL NETS - CONTINUED					
	DRIFT				RUNAROUND	
	SHAD		OTHER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SEA TROUT OR WEAKFISH:						
GRAY	-	-	-	-	99,200	$8,220
SPOTTED	-	-	500	$175	45,900	16,065
SHAD	15,500	$3,100	600	120	3,500	700
SPANISH MACKEREL	-	-	-	-	7,500	1,125
SPOT	-	-	-	-	74,500	7,316
STRIPED BASS	500	80	1,200	192	4,400	704
STURGEON	500	100	-	-	18,200	3,640
WHITE PERCH	-	-	3,000	316	1,400	154
YELLOW PERCH	-	-	500	45	-	-
TOTAL	16,500	3,280	91,000	2,225	660,100	78,153

SPECIES	LINES						DIP NETS	
	HAND		LONG OR SET WITH HOOKS		TROT WITH BAITS			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	5,000	$700	-	-	-	-	-	-
CATFISH AND BULLHEADS	-	-	101,200	$10,120	-	-	-	-
DRUM, BLACK	700	42	-	-	-	-	-	-
GROUPERS	1,400	112	-	-	-	-	-	-
KING MACKEREL	67,600	13,520	-	-	-	-	-	-
SCUP OR PORGY	7,900	571	-	-	-	-	-	-
SEA BASS	52,700	7,855	-	-	-	-	-	-
SHEEPSHEAD, SALT-WATER	4,000	320	-	-	-	-	-	-
SNAPPER, RED	500	150	-	-	-	-	-	-
SPANISH MACKEREL	10,000	1,500	-	-	-	-	-	-
SWORDFISH	-	-	482,800	232,790	-	-	-	-
TUNA, BLUEFIN	-	-	33,100	2,895	-	-	-	-
CRABS, BLUE:								
HARD	-	-	-	-	4,745,000	$257,355	-	-
SOFT AND PEELER	-	-	-	-	-	-	6,100	$2,867
SCALLOPS, BAY	-	-	-	-	-	-	83,300	42,483
TURTLES, SNAPPER	6,600	1,188	-	-	-	-	-	-
TOTAL	156,400	25,958	617,100	245,805	4,745,000	257,355	89,400	45,350

SPECIES	SPEARS		DREDGES					
			CLAM		OYSTER		SCALLOP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS	120,300	$25,732	-	-	-	-	-	-
CLAMS, HARD, PUBLIC	-	-	40,000	$15,400	3,000	$1,200	-	-
OYSTERS, MARKET, PUBLIC:								
SPRING	-	-	-	-	77,000	52,360	-	-
FALL	-	-	-	-	189,800	129,064	-	-
SCALLOPS, BAY	-	-	-	-	-	-	230,000	$116,675
TOTAL	120,300	25,732	40,000	15,400	269,800	182,624	230,000	116,675

SPECIES	TONGS		RAKES		BY HAND	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS, HARD, PUBLIC	-	-	212,400	$81,617	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING	58,000	$33,478	-	-	113,700	$51,978
FALL	63,500	37,295	-	-	147,600	68,090
PRIVATE:						
SPRING	22,500	12,725	-	-	14,500	7,745
FALL	18,700	10,585	-	-	22,400	11,455
SCALLOPS, BAY	-	-	26,400	13,464	-	-
TOTAL	162,700	94,083	238,800	95,081	298,200	139,268

SOUTH ATLANTIC FISHERIES

SOUTH CAROLINA

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS		POTS AND TRAPS
		CRAB	SHRIMP	CRAB
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS.	-	24	377	-
ON BOATS AND SHORE:				
REGULAR	-	14	126	181
CASUAL.	250	-	-	-
TOTAL	250	38	503	181
VESSELS, MOTOR.	-	12	183	-
GROSS TONNAGE	-	317	4,677	-
BOATS:				
MOTOR	-	7	63	171
OTHER	10	-	-	-
GEAR:				
NUMBER.	10	19	377	11,795
LENGTH, YARDS	2,500	-	-	-
YARDS AT MOUTH.	-	375	7,319	-

ITEM	POTS AND TRAPS-CONTINUED	GILL NETS		
		ANCHOR, SET OR STAKE	DRIFT	
	FISH		SHAD	OTHER
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS.	28	-	-	-
ON BOATS AND SHORE:				
REGULAR	53	-	17	-
CASUAL.	-	35	60	24
TOTAL	81	35	77	24
VESSELS, MOTOR.	11	-	-	-
GROSS TONNAGE	309	-	-	-
BOATS, MOTOR.	49	25	77	24
GEAR:				
NUMBER.	2,679	25	77	24
SQUARE YARDS.	-	18,750	26,000	2,740

ITEM	LINES		CAST NETS	SPEARS
	HAND	TROT WITH BAITS		
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:				
REGULAR	4	40	-	-
CASUAL.	6	-	8	5
TOTAL	10	40	8	5
BOATS, MOTOR.	5	40	8	5
GEAR:				
NUMBER.	10	48	8	5
HOOKS OR BAITS.	20	33,500	-	-

ITEM	TONGS, OYSTER	RAKES, CLAM	BY HAND		TOTAL, EXCLUSIVE OF DUPLICATION
			OYSTER	OTHER	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	-	-	-	-	386
ON BOATS AND SHORE:					
REGULAR	213	-	103	4	724
CASUAL.	25	46	20	-	418
TOTAL	238	46	123	4	1,528
VESSELS, MOTOR.	-	-	-	-	185
GROSS TONNAGE	-	-	-	-	4,731
BOATS:					
MOTOR	238	46	123	2	814
OTHER	-	-	-	-	10
GEAR, NUMBER.	238	46	-	-	-

SOUTH CAROLINA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		OTTER TRAWLS			
			CRAB		SHRIMP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	316,100	$38,027	-	-	300	$30
CROAKER	10,000	500	-	-	400	21
DRUM:						
BLACK	11,800	1,210	-	-	-	-
RED	10,200	1,436	-	-	800	114
FLOUNDERS	-	-	-	-	22,000	5,451
KING MACKEREL	200	26	-	-	200	16
KING WHITING OR "KINGFISH"	193,700	63,458	-	-	52,300	5,214
MULLET	680,100	47,704	-	-	-	-
POMPANO	28,200	12,626	-	-	1,300	496
SCUP OR PORGY	-	-	-	-	14,400	624
SEA BASS	-	-	-	-	300	46
SEA TROUT OR WEAKFISH:						
GRAY	-	-	-	-	6,800	286
SPOTTED	33,000	13,765	-	-	4,800	1,175
SHARKS, UNCLASSIFIED	5,000	504	-	-	13,700	1,349
SHEEPSHEAD, SALT-WATER	3,500	175	-	-	200	7
SPANISH MACKEREL	1,800	306	-	-	700	86
SPOT	3,116,500	209,779	-	-	24,500	1,163
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	510,100	10,201	-	-	-	-
CRABS, BLUE, HARD	-	-	653,100	$20,874	-	-
SHRIMP	-	-	-	-	2,596,900	853,379
TOTAL	4,920,200	399,717	653,100	20,874	2,739,600	869,457

SPECIES	POTS AND TRAPS				GILL NETS			
	CRAB		FISH		ANCHOR, SET OR STAKE		DRIFT	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH AND BULLHEADS	-	-	1,434,100	$211,703	-	-	-	-
HICKORY SHAD	-	-	-	-	-	-	2,000	$59
SEA BASS	-	-	224,700	29,895	-	-	-	-
SHAD	-	-	-	-	27,500	$6,149	92,600	21,344
SPOT	-	-	-	-	25,000	2,250	-	-
STURGEON	-	-	-	-	64,200	9,635	-	-
CRABS, BLUE, HARD	4,352,700	$171,494	-	-	-	-	-	-
TOTAL	4,352,700	171,494	1,658,800	241,598	116,700	18,034	94,600	21,403

SPECIES	LINES				CAST NETS		SPEARS	
	HAND		TROT WITH BAITS					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
DRUM, RED	500	$72	-	-	-	-	-	-
FLOUNDERS	-	-	-	-	-	-	24,300	$6,030
GROUPERS	200	24	-	-	-	-	-	-
SCUP OR PORGY	500	20	-	-	-	-	-	-
SEA BASS	8,800	1,411	-	-	-	-	-	-
SEA TROUT OR WEAKFISH, SPOTTED	-	-	-	-	-	-	21,800	5,431
SNAPPER:								
RED	8,200	3,299	-	-	-	-	-	-
VERMILION	300	24	-	-	-	-	-	-
CRABS, BLUE, HARD	-	-	4,430,300	$183,393	-	-	-	-
SHRIMP	-	-	-	-	35,100	$7,541	-	-
TOTAL	18,500	4,850	4,430,300	183,393	35,100	7,541	46,100	11,461

SPECIES	TONGS		RAKES		BY HAND			
					OYSTER		OTHER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS, HARD, PUBLIC	-	-	137,700	$50,198	-	-	8,600	$3,605
OYSTERS, MARKET, PRIVATE:								
SPRING	1,501,200	$595,080	-	-	178,100	$76,586	-	-
FALL	743,500	288,671	-	-	88,300	36,632	-	-
TOTAL	2,244,700	883,751	137,700	50,198	266,400	113,218	8,600	3,605

SOUTH ATLANTIC FISHERIES

GEORGIA

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS		POTS AND TRAPS
		CRAB	SHRIMP	CRAB
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS.	-	96	667	-
ON BOATS AND SHORE:				
REGULAR	-	134	182	157
CASUAL.	8	3	255	2
TOTAL	8	233	1,104	159
VESSELS, MOTOR.	-	48	333	-
GROSS TONNAGE	-	1,390	10,343	-
BOATS, MOTOR.	4	76	213	151
GEAR:				
NUMBER.	4	164	819	9,635
LENGTH, YARDS	625	-	-	-
YARDS AT MOUTH. . . .	-	2,584	11,048	-

ITEM	POTS AND TRAPS-CONTINUED	GILL NETS		LINES
	FISH	ANCHOR, SET OR STAKE	DRIFT, SHAD	HAND
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:				
REGULAR	15	-	123	-
CASUAL.	53	54	248	27
TOTAL	68	54	371	27
BOATS:				
MOTOR	57	44	217	13
OTHER	-	-	10	-
GEAR:				
NUMBER.	446	53	253	26
SQUARE YARDS.	-	9,577	128,430	-
HOOKS OR BAITS. . . .	-	-	-	52

ITEM	LINES - CONTINUED			DIP NETS, DROP
	TROLL, OTHER	LONG OR SET WITH HOOKS	TROT WITH BAITS	
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:				
REGULAR	-	23	2	12
CASUAL.	8	60	-	20
TOTAL	8	83	2	32
BOATS, MOTOR.	5	73	2	25
GEAR:				
NUMBER.	16	401	2	1,875
HOOKS OR BAITS. . . .	16	20,050	1,300	-

ITEM	CAST NETS	GRABS	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS.	-	-	-	667
ON BOATS AND SHORE:				
REGULAR	-	26	37	480
CASUAL.	7	-	22	593
TOTAL	7	26	59	1,740
VESSELS, MOTOR.	-	-	-	333
GROSS TONNAGE	-	-	-	10,343
BOATS:				
MOTOR	5	26	34	611
OTHER	-	20	26	56
GEAR, NUMBER.	7	26	-	-

GEORGIA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		OTTER TRAWLS			
			CRAB		SHRIMP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CROAKER	-	-	-	-	400	$48
DRUM, BLACK	-	-	-	-	100	10
FLOUNDERS	300	$34	-	-	23,000	2,305
KING MACKEREL	-	-	-	-	100	10
KING WHITING OR "KINGFISH".	-	-	-	-	91,400	9,153
MULLET, BLACK	3,700	362	-	-	-	-
SEA BASS.	-	-	-	-	800	139
SEA TROUT OR WEAKFISH, SPOTTED.	900	259	-	-	100	32
SHEEPSHEAD.	100	9	-	-	-	-
SNAPPER, RED.	-	-	-	-	100	30
SPOT.	-	-	-	-	2,500	299
STRIPED BASS.	2,500	427	-	-	100	9
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD .	-	-	-	-	154,800	2,697
CRABS, BLUE, HARD	-	-	6,373,800	$248,915	2,110,700	75,898
SHRIMP.	-	-	-	-	5,938,500	2,298,056
TOTAL	7,500	1,091	6,373,800	248,915	8,322,600	2,388,686

SPECIES	POTS AND TRAPS				GILL NETS			
	CRAB		FISH		ANCHOR, SET OR STAKE		DRIFT, SHAD	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CARP.	-	-	-	-	-	-	2,200	$113
CATFISH AND BULLHEADS . . .	-	-	41,400	$12,193	-	-	-	-
EELS, COMMON.	-	-	5,500	386	-	-	-	-
HICKORY SHAD.	-	-	-	-	-	-	1,000	207
SEA BASS.	-	-	100	26	-	-	-	-
SHAD.	-	-	-	-	8,700	$2,784	305,300	96,984
STRIPED BASS.	-	-	-	-	-	-	500	73
STURGEON, COMMON.	-	-	-	-	-	-	1,900	337
SUCKERS	-	-	2,900	263	-	-	-	-
CRABS, BLUE, HARD	2,859,400	$138,266	-	-	-	-	-	-
TOTAL	2,859,400	138,266	49,900	12,868	8,700	2,784	310,900	97,714

SPECIES	LINES							
	HAND		TROLL		LONG OR SET WITH HOOKS		TROT WITH BAITS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH AND BULLHEADS . . .	-	-	-	-	17,000	$4,560	-	-
DRUM, BLACK	1,100	$135	-	-	-	-	-	-
GROUPERS.	100	23	-	-	-	-	-	-
SEA BASS.	300	59	-	-	-	-	-	-
SEA TROUT OR WEAKFISH, SPOTTED.	500	175	400	$108	-	-	-	-
SNAPPER:								
RED	300	136	-	-	-	-	-	-
UNCLASSIFIED.	600	57	-	-	-	-	-	-
SUCKERS	-	-	-	-	200	13	-	-
CRABS, BLUE, HARD	-	-	-	-	-	-	100,800	$4,780
TOTAL	2,900	585	400	108	17,200	4,573	100,800	4,780

SPECIES	DIP NETS, DROP		CAST NETS		GRABS		BY HAND, OYSTER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
MULLET, BLACK	-	-	1,200	$125	-	-	-	-
CRABS, BLUE, HARD	87,200	$3,960	-	-	-	-	-	-
SHRIMP.	-	-	200	80	-	-	-	-
OYSTERS, MARKET, PRIVATE:								
SPRING.	-	-	-	-	17,400	$6,076	122,100	$42,750
FALL.	-	-	-	-	2,800	981	53,500	18,729
TOTAL	87,200	3,960	1,400	205	20,200	7,057	175,600	61,479

SOUTH ATLANTIC FISHERIES
FLORIDA, EAST COAST
OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	PURSE SEINES		OTTER TRAWLS, SHRIMP	POUND NETS, FISH	FYKE AND HOOP NETS, FISH	POTS AND TRAPS	
							CRAB	
		MENHADEN	OTHER				BLUE	OTHER
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:								
ON VESSELS	-	63	-	656	-	-	-	-
ON BOATS AND SHORE:								
REGULAR	63	-	4	16	6	12	106	36
CASUAL	2	-	-	4	-	-	16	10
TOTAL	65	63	4	676	6	12	122	46
VESSELS, MOTOR	-	3	-	307	-	-	-	-
GROSS TONNAGE	-	383	-	12,004	-	-	-	-
BOATS:								
MOTOR	15	6	2	16	4	12	122	35
OTHER	4	-	-	-	-	-	-	-
GEAR:								
NUMBER	14	3	2	608	9	320	13,600	5,500
LENGTH, YARDS	5,450	1,200	400	-	-	-	-	-
YARDS AT MOUTH	-	-	-	9,188	-	-	-	-

ITEM	POTS AND TRAPS - CONTINUED			GILL NETS			TRAMMEL NETS	LINES
	EEL	FISH	LOBSTER, SPINY	ANCHOR, SET OR STAKE	DRIFT, SHAD	RUNA-ROUND		HAND
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:								
ON VESSELS	-	-	41	-	-	70	-	116
ON BOATS AND SHORE:								
REGULAR	4	198	143	20	13	352	17	207
CASUAL	-	-	14	2	1	26	-	259
TOTAL	4	198	198	22	14	448	17	582
VESSELS, MOTOR	-	-	13	-	-	22	-	45
GROSS TONNAGE	-	-	204	-	-	270	-	1,040
BOATS:								
MOTOR	4	198	80	18	14	239	11	336
OTHER	-	-	-	-	-	33	-	-
GEAR:								
NUMBER	200	7,490	40,100	26	14	294	11	582
SQUARE YARDS	-	-	-	28,350	19,860	593,830	10,200	-
HOOKS OR BAITS	-	-	-	-	-	-	-	984

ITEM	LINES - CONTINUED			DIP NETS, COMMON	CAST NETS	SPEARS
	TROLL	LONG OR SET WITH HOOKS	TROT WITH BAITS			
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	8	-	-	-	-	-
ON BOATS AND SHORE:						
REGULAR	207	552	9	-	2	-
CASUAL	120	54	7	1	2	3
TOTAL	335	606	16	1	4	3
VESSELS, MOTOR	4	-	-	-	-	-
GROSS TONNAGE	41	-	-	-	-	-
BOATS, MOTOR	241	598	16	1	4	3
GEAR:						
NUMBER	458	602	16	1	4	3
HOOKS OR BAITS	458	647,625	11,000	-	-	-

ITEM	TONGS, OYSTER	RAKES	HOOKS, SPONGE	BY HAND		TOTAL, EXCLUSIVE OF DUPLICATION
				OYSTER	OTHER	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	-	-	-	-	-	852
ON BOATS AND SHORE:						
REGULAR	8	5	6	27	3	1,673
CASUAL	1	-	-	-	-	430
TOTAL	9	5	6	27	3	2,955
VESSELS, MOTOR	-	-	-	-	-	351
GROSS TONNAGE	-	-	-	-	-	12,863
BOATS:						
MOTOR	9	5	3	27	3	1,681
OTHER	-	-	-	-	-	37
GEAR, NUMBER	9	5	3	-	-	-

NOTE:--INCLUDES OPERATING UNITS FOR THE INLAND LAKES OF FLORIDA.

SOUTH ATLANTIC FISHERIES

FLORIDA , EAST COAST - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		PURSE SEINES				OTTER TRAWLS, SHRIMP	
			MENHADEN		OTHER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	2,000	$49	-	-	-	-	-	-
BALLYHOO	-	-	-	-	29,700	$4,165	-	-
BLUEFISH	30,100	2,769	-	-	-	-	-	-
BLUE RUNNER	3,200	106	-	-	-	-	-	-
CREVALLE	6,500	195	-	-	-	-	-	-
CROAKER	52,400	7,918	-	-	-	-	-	-
DRUM:								
BLACK	72,500	5,957	-	-	-	-	2,300	$188
RED	19,500	3,568	-	-	-	-	-	-
FLOUNDERS	2,200	363	-	-	-	-	179,500	29,558
KING WHITING OR "KINGFISH"	299,200	26,329	-	-	-	-	967,800	85,154
MENHADEN	800	20	16,772,800	$177,792	-	-	-	-
MOJARRA	146,400	10,687	-	-	-	-	-	-
MULLET, BLACK	14,700	706	-	-	-	-	-	-
POMPANO	200	135	-	-	-	-	-	-
SCUP OR PORGY	-	-	-	-	-	-	1,000	103
SEA BASS	-	-	-	-	-	-	1,000	115
SEA CATFISH	300	21	-	-	-	-	-	-
SEA TROUT OR WEAKFISH:								
GRAY	15,500	2,108	-	-	-	-	3,500	476
SPOTTED	1,500	405	-	-	-	-	-	-
SHAD	346,400	34,147	-	-	-	-	-	-
SHEEPSHEAD, SALT-WATER	1,000	82	-	-	-	-	-	-
SPOT	73,800	9,742	-	-	-	-	1,700	224
TRIGGERFISH	100	7	-	-	-	-	4,500	300
TRIPLETAIL	1,300	77	-	-	-	-	-	-
UNCLASSIFIED:								
FOR FOOD	13,100	890	-	-	-	-	5,000	340
BAIT, REDUCTION, AND ANIMAL FOOD	192,100	3,981	-	-	-	-	302,000	6,140
CRABS, BLUE, HARD	-	-	-	-	-	-	210,900	13,498
SHRIMP	-	-	-	-	-	-	4,476,000	1,964,197
SQUID	-	-	-	-	-	-	4,000	783
TOTAL	1,294,800	110,262	16,772,800	177,792	29,700	4,165	6,159,200	2,101,076

SPECIES	POUND NETS, FISH		FYKE AND HOOP NETS, FISH		POTS AND TRAPS			
					CRAB			
					BLUE		OTHER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH AND BULLHEADS	148,400	$21,745	462,600	$68,002	-	-	-	-
CRABS:								
BLUE:								
HARD	-	-	-	-	6,563,700	$422,848	-	-
SOFT AND PEELER	-	-	-	-	2,100	717	-	-
STONE	-	-	-	-	5,300	2,327	178,900	$78,558
TOTAL	148,400	21,745	462,600	68,002	6,571,100	425,892	178,900	78,558

SPECIES	POTS AND TRAPS - CONTINUED					
	EEL		FISH		LOBSTER, SPINY	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH AND BULLHEADS	-	-	3,687,700	$537,231	-	-
EELS, COMMON	122,100	$6,287	-	-	-	-
CRABS, BLUE:						
HARD	-	-	-	-	900	$58
STONE	-	-	-	-	6,800	2,985
LOBSTER, SPINY	-	-	-	-	780,700	348,357
TOTAL	122,100	6,287	3,687,700	537,231	788,400	351,400

(CONTINUED ON NEXT PAGE)

FLORIDA , EAST COAST - CATCH BY GEAR, 1964 - Continued

SPECIES	GILL NETS						TRAMMEL NETS	
	ANCHOR, SET OR STAKE		DRIFT, SHAD		RUNA-ROUND			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	-	-	100	$2	-	-
BLUEFISH	-	-	-	-	1,087,900	100,559	13,300	$1,224
BLUE RUNNER	-	-	-	-	26,100	881	1,500	49
CATFISH AND BULLHEADS	-	-	-	-	400	58	-	-
CREVALLE	-	-	-	-	42,700	1,281	1,000	30
CROAKER	-	-	-	-	33,800	5,137	500	76
DRUM:								
BLACK	-	-	-	-	26,900	2,206	700	57
RED	-	-	-	-	65,100	11,894	4,700	860
FLOUNDERS	-	-	-	-	4,400	726	500	82
KING MACKEREL	-	-	-	-	433,500	58,522	-	-
KING WHITING OR "KINGFISH"	-	-	-	-	63,900	5,624	1,500	132
MENHADEN	-	-	-	-	377,400	9,511	3,500	88
MOJARRA	-	-	-	-	16,000	1,168	1,300	95
MULLET:								
BLACK	-	-	-	-	2,784,400	132,248	-	-
SILVER	-	-	-	-	42,000	3,345	-	-
PIGFISH	-	-	-	-	4,200	294	-	-
POMPANO	-	-	-	-	93,500	63,205	41,600	28,149
SEA CATFISH	-	-	-	-	5,900	416	-	-
SEA TROUT OR WEAKFISH:								
GRAY	1,500	$204	-	-	68,200	9,310	4,800	653
SPOTTED	-	-	-	-	639,900	172,861	5,700	1,539
SHAD	175,300	17,285	91,500	$8,967	-	-	-	-
SHEEPSHEAD, SALT-WATER	-	-	-	-	70,400	5,789	3,500	287
SPANISH MACKEREL	-	-	-	-	1,947,300	164,574	-	-
SPOT	-	-	-	-	863,800	114,104	4,000	528
TRIPLETAIL	-	-	-	-	1,200	71	-	-
UNCLASSIFIED:								
FOR FOOD	-	-	-	-	192,900	13,043	5,000	340
BAIT, REDUCTION, AND ANIMAL FOOD	-	-	-	-	153,900	3,178	6,700	134
TOTAL	176,800	17,489	91,500	8,967	9,045,800	880,007	99,800	34,323

SPECIES	LINES							
	HAND		TROLL		LONG OR SET WITH HOOKS		TROT WITH BAITS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
AMBERJACK	7,400	$269	-	-	-	-	-	-
BARRACUDA	600	26	-	-	-	-	-	-
BLUEFISH	37,900	3,486	32,500	$2,989	-	-	-	-
BLUE RUNNER	18,400	606	700	24	-	-	-	-
BONITO	-	-	100	3	-	-	-	-
CABIO	2,400	262	-	-	-	-	-	-
CATFISH AND BULLHEADS	-	-	-	-	7,770,000	$1,129,649	-	-
CREVALLE	63,300	1,868	-	-	-	-	-	-
CROAKER	14,500	2,204	-	-	-	-	-	-
DOLPHIN	-	-	5,700	899	-	-	-	-
DRUM:								
BLACK	9,800	803	-	-	-	-	-	-
RED	29,700	5,435	-	-	-	-	-	-
FLOUNDERS	1,200	198	-	-	-	-	-	-
GROUPERS	211,300	26,332	-	-	2,800	350	-	-
GRUNTS	22,500	1,628	-	-	1,500	108	-	-
HOGFISH	2,500	484	-	-	-	-	-	-
JEWFISH	31,700	2,354	-	-	-	-	-	-
KING MACKEREL	27,700	3,739	1,558,800	211,259	-	-	-	-
KING WHITING OR "KINGFISH"	31,100	2,738	-	-	-	-	-	-
MOJARRA	15,500	1,132	-	-	-	-	-	-
PERMIT	300	31	-	-	-	-	-	-
PIGFISH	500	34	-	-	-	-	-	-
POMPANO	4,400	2,975	-	-	-	-	-	-
SCUP OR PORGY	35,400	3,632	-	-	-	-	-	-
SEA BASS	47,900	5,501	-	-	-	-	-	-
SEA CATFISH	1,900	133	-	-	-	-	-	-
SEA TROUT OR WEAKFISH:								
GRAY	10,400	1,414	3,500	476	-	-	-	-
SPOTTED	100,400	27,108	17,000	4,590	-	-	-	-

(CONTINUED ON NEXT PAGE)

FLORIDA , EAST COAST - CATCH BY GEAR, 1964 - Continued

SPECIES	LINES							
	HAND		TROLL		LONG OR SET WITH HOOKS		TROT WITH BAITS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SHEEPSHEAD, SALT-WATER. . .	20,700	$1,696	-	-	-	-	-	-
SNAPPER:								
MANGROVE.	82,600	16,627	-	-	2,000	$404	-	-
MUTTON.	63,400	15,823	-	-	1,200	300	-	-
RED	541,700	193,611	-	-	-	-	-	-
VERMILION	5,200	1,147	-	-	-	-	-	-
YELLOWTAIL.	144,100	38,488	-	-	-	-	-	-
SPANISH MACKEREL.	21,600	1,815	33,300	$2,797	-	-	-	-
SPOT.	8,600	1,134	-	-	-	-	-	-
TRIGGERFISH	1,000	67	-	-	-	-	-	-
TRIPLETAIL.	2,000	122	-	-	-	-	-	-
WARSAW.	17,500	1,913	-	-	-	-	-	-
UNCLASSIFIED:								
FOR FOOD.	46,100	3,134	-	-	1,300	88	-	-
BAIT, REDUCTION, AND ANIMAL FOOD.	4,500	90	-	-	-	-	-	-
CRABS, BLUE, HARD	-	-	-	-	-	-	175,300	$11,219
TURTLES, SOFT-SHELL	-	-	-	-	310,200	24,816	-	-
TOTAL.	1,687,700	370,059	1,651,600	223,037	8,089,000	1,155,715	175,300	11,219

SPECIES	DIP NETS, COMMON		CAST NETS		SPEARS		TONGS, OYSTER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS	-	-	-	-	1,100	$182	-	-
MOJARRA	-	-	1,500	$110	-	-	-	-
MULLET, BLACK	-	-	7,500	360	-	-	-	-
LOBSTER, SPINY.	5,000	$2,230	-	-	-	-	-	-
SHRIMP.	-	-	14,700	6,803	-	-	-	-
OYSTERS, MARKET:								
PUBLIC:								
SPRING.	-	-	-	-	-	-	11,700	$3,510
FALL.	-	-	-	-	-	-	26,100	7,842
PRIVATE, FALL	-	-	-	-	-	-	2,500	750
TOTAL.	5,000	2,230	23,700	7,273	1,100	182	40,300	12,102

SPECIES	RAKES		HOOKS, SPONGE		BY HAND			
					OYSTER		OTHER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS, HARD, PUBLIC	500	$180	-	-	-	-	500	$179
CONCHS.	-	-	-	-	-	-	100	42
OYSTERS, MARKET:								
PUBLIC:								
SPRING.	-	-	-	-	8,300	$2,490	-	-
FALL.	-	-	-	-	4,700	1,410	-	-
PRIVATE:								
SPRING.	-	-	-	-	25,400	7,620	-	-
FALL.	-	-	-	-	13,600	4,080	-	-
SPONGES:								
SHEEPSWOOL.	-	-	100	$550	-	-	-	-
YELLOW.	-	-	200	203	-	-	-	-
TOTAL.	500	180	300	753	52,000	15,600	600	221

SUPPLEMENTARY TABLES

FLORIDA - OPERATING UNITS BY DISTRICT, 1964

ITEM	EAST COAST	WEST COAST	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER
FISHERMEN:			
ON VESSELS	852	3,932	4,496
ON BOATS AND SHORE:			
REGULAR	1,673	3,034	4,707
CASUAL	430	1,618	2,048
TOTAL	2,955	8,584	11,251
VESSELS, MOTOR	351	1,278	1,495
GROSS TONNAGE	12,863	50,070	57,238
BOATS:			
MOTOR	1,681	3,391	5,072
OTHER	37	187	224
GEAR:			
HAUL SEINES, COMMON	14	81	95
LENGTH, YARDS	5,450	55,600	61,050
PURSE SEINES:			
MENHADEN	3	-	3
LENGTH, YARDS	1,200	-	1,200
OTHER	2	6	8
LENGTH, YARDS	400	1,200	1,600
OTTER TRAWLS:			
CRAB	-	5	5
YARDS AT MOUTH	-	93	93
FISH	-	3	3
YARDS AT MOUTH	-	87	87
SHRIMP	608	1,805	2,189
YARDS AT MOUTH	9,188	27,470	33,148
POUND NETS:			
FISH	9	-	9
CRAB	-	40	40
FYKE AND HOOP NETS, FISH	320	-	320
POTS AND TRAPS:			
CRAB:			
BLUE	13,600	48,885	62,485
OTHER	5,500	20,974	26,474
EEL	200	-	200
FISH	7,490	-	7,490
LOBSTER, SPINY	40,100	73,553	112,653
GILL NETS:			
ANCHOR, SET OR STAKE	26	4	30
SQUARE YARDS	28,350	2,920	31,270
DRIFT:			
SHAD	14	-	14
SQUARE YARDS	19,860	-	19,860
OTHER	-	14	14
SQUARE YARDS	-	41,100	41,100
RUNAROUND	294	1,113	1,401
SQUARE YARDS	593,830	1,667,618	2,228,448
TRAMMEL NETS	11	297	308
SQUARE YARDS	10,200	361,701	371,901
LINES:			
HAND	582	2,979	3,553
HOOKS	984	8,448	9,420
TROLL	458	1,299	1,757
HOOKS	458	1,299	1,757
LONG OR SET WITH HOOKS	602	72	674
HOOKS	647,625	3,800	651,425
TROT WITH BAITS	16	11	27
BAITS	11,000	6,600	17,600
DIP NETS:			
COMMON	1	66	67
DROP	-	160	160
CAST NETS	4	15	19
SPEARS	3	31	34
DREDGES, SCALLOP	-	57	57
YARDS AT MOUTH	-	58	58
TONGS:			
OYSTER	9	787	796
OTHER	-	8	8
RAKES	5	1	6
HOOKS, SPONGE	3	46	49
DIVING OUTFITS	-	12	12

NOTE:--A TOTAL OF 550 FISHERMEN USING 550 MOTOR BOATS FISHED 6,450 FISH POTS AND TRAPS, 3 POUND NETS, AND 482 LONG OR SET LINES WITH 544,300 HOOKS, IN THE INLAND LAKES OF FLORIDA. THESE OPERATING UNITS ARE INCLUDED WITH THOSE OF THE EAST COAST OF FLORIDA.

FLORIDA - CATCH BY DISTRICTS, 1964

SPECIES	EAST COAST		WEST COAST		TOTAL	
FISH	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	2,100	$51	433,300	$16,512	435,400	$16,563
AMBERJACK	7,400	269	9,800	449	17,200	718
BALLYHOO	29,700	4,165	887,300	124,660	917,000	128,825
BARRACUDA	600	26	1,800	88	2,400	114
BLUEFISH	1,201,700	111,027	778,800	77,094	1,980,500	188,121
BLUE RUNNER	49,900	1,666	1,210,300	27,716	1,260,200	29,382
BONITO	100	3	-	-	100	3
CABIO	2,400	262	10,500	619	12,900	881
CATFISH AND BULLHEADS	12,069,100	1,756,685	81,000	14,737	12,150,100	1,771,422
CIGARFISH	-	-	501,800	36,033	501,800	36,033
CREVALLE	113,500	3,374	536,700	13,366	650,200	16,740
CROAKER	101,200	15,335	64,500	4,367	165,700	19,702
DOLPHIN	5,700	899	22,000	1,576	27,700	2,475
DRUM:						
BLACK	112,200	9,211	88,400	4,528	200,600	13,739
RED	119,000	21,757	699,200	90,392	818,200	112,149
EELS	122,100	6,287	-	-	122,100	6,287
FLOUNDERS	188,900	31,109	204,400	46,024	393,300	77,133
GROUPERS	214,100	26,682	7,662,200	822,907	7,876,300	849,589
GRUNTS	24,000	1,736	37,400	2,538	61,400	4,274
HOGFISH	2,500	484	21,500	3,372	24,000	3,856
JEWFISH	31,700	2,354	86,200	7,537	117,900	9,891
KING MACKEREL	2,020,000	273,520	1,313,900	110,097	3,333,900	383,617
KING WHITING OR "KINGFISH"	1,363,500	119,977	232,100	10,209	1,595,600	130,186
MENHADEN	17,154,500	187,411	84,000	2,430	17,238,500	189,841
MOJARRA	180,700	13,192	105,100	7,730	285,800	20,922
MULLET:						
BLACK	2,806,600	133,314	34,995,600	1,928,258	37,802,200	2,061,572
SILVER	42,000	3,345	545,000	33,128	587,000	36,473
PERMIT	300	31	17,600	1,940	17,900	1,971
PIGFISH	4,700	328	13,400	845	18,100	1,173
POMPANO	139,700	94,464	624,900	387,652	764,600	482,116
SCUP OR PORGY	36,400	3,735	53,600	4,914	90,000	8,649
SEA BASS	48,900	5,616	-	-	48,900	5,616
SEA CATFISH	8,100	570	236,600	14,399	244,700	14,969
SEA TROUT OR WEAKFISH:						
GRAY	107,400	14,641	-	-	107,400	14,641
SPOTTED	764,500	206,503	2,799,300	705,822	3,563,800	912,325
WHITE	-	-	42,900	4,392	42,900	4,392
SHAD	613,200	60,399	-	-	613,200	60,399
SHARKS, UNCLASSIFIED	-	-	700	52	700	52
SHEEPSHEAD, SALT-WATER	95,600	7,854	213,600	18,745	309,200	26,599
SNAPPER:						
MANGROVE	84,600	17,031	324,900	58,130	409,500	75,161
MUTTON	64,600	16,123	134,300	30,017	198,900	46,140
RED	541,700	193,611	6,532,200	2,009,328	7,073,900	2,202,939
VERMILION	5,200	1,147	89,500	15,104	94,700	16,251
YELLOWTAIL	144,100	38,488	896,500	219,739	1,040,600	258,227
SPANISH MACKEREL	2,002,200	169,186	3,879,600	369,705	5,881,800	538,891
SPOT	951,900	125,732	352,800	26,198	1,304,700	151,930
STURGEON	-	-	8,900	1,808	8,900	1,808
TENPOUNDER	-	-	841,500	18,768	841,500	18,768
TILEFISH	-	-	400	39	400	39
TRIGGERFISH	5,600	374	24,000	828	29,600	1,202
TRIPLETAIL	4,500	270	1,000	49	5,500	319
WARSAW	17,500	1,913	158,600	12,361	176,100	14,274
UNCLASSIFIED:						
FOR FOOD	263,400	17,835	933,000	67,352	1,196,400	85,187
BAIT, REDUCTION, AND ANIMAL FOOD	659,200	13,523	248,100	6,347	907,300	19,870
TOTAL FISH	44,528,500	3,713,515	69,040,700	7,360,901	113,569,200	11,074,416
SHELLFISH, ETC.						
CRABS:						
BLUE:						
HARD	6,950,800	447,623	14,068,500	842,704	21,019,300	1,290,327
SOFT AND PEELER	2,100	717	13,000	6,567	15,100	7,284
STONE	191,000	83,870	751,700	232,986	942,700	316,856
TOTAL CRABS	7,143,900	532,210	14,833,200	1,082,257	21,977,100	1,614,467

SEE FOOTNOTE AT END OF TABLE.

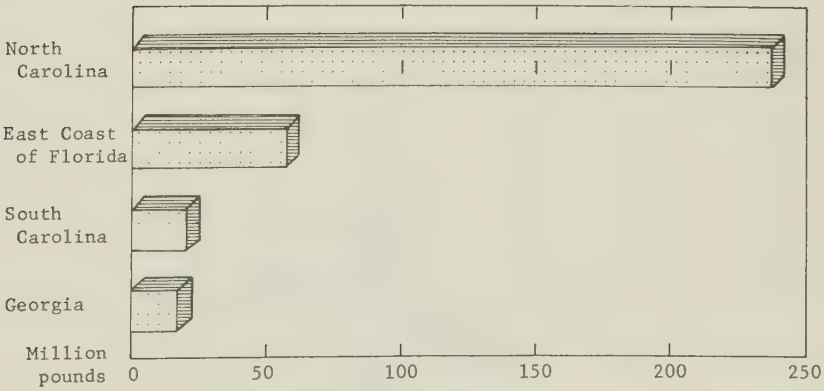
(CONTINUED ON NEXT PAGE)

FLORIDA - CATCH BY DISTRICTS, 1964 - Continued

SPECIES	EAST COAST		WEST COAST		TOTAL	
SHELLFISH, ETC. - CONTINUED	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
LOBSTERS, SPINY.	785,700	$350,587	2,845,400	$1,211,576	3,631,100	$1,562,163
SHRIMP	4,490,700	1,971,000	39,965,800	13,322,273	44,456,500	15,293,273
CLAMS, HARD, PUBLIC.	1,000	359	71,700	23,882	72,700	24,241
CONCHS	100	42	1,800	536	1,900	578
OYSTERS, MARKET:						
PUBLIC:						
SPRING	20,000	6,000	1,477,500	412,886	1,497,500	418,886
FALL	30,800	9,252	1,185,200	331,856	1,216,000	341,108
PRIVATE:						
SPRING	25,400	7,620	70,700	19,796	96,100	27,416
FALL	16,100	4,830	59,300	16,604	75,400	21,434
TOTAL OYSTERS.	92,300	27,702	2,792,700	781,142	2,885,000	808,844
SCALLOPS, BAY.	-	-	18,400	13,752	18,400	13,752
SQUID.	4,000	783	14,700	1,491	18,700	2,274
TURTLES:						
GREEN.	-	-	29,600	4,274	29,600	4,274
LOGGERHEAD	-	-	1,100	112	1,100	112
SOFT-SHELL	310,200	24,816	-	-	310,200	24,816
SPONGES:						
GRASS.	-	-	2,000	2,694	2,000	2,694
SHEEPSWOOL	100	550	34,900	347,736	35,000	348,286
YELLOW	200	203	6,700	12,154	6,900	12,357
TOTAL SHELLFISH, ETC.. .	12,828,200	2,908,252	60,618,000	16,803,879	73,446,200	19,712,131
GRAND TOTAL.	57,356,700	6,621,767	129,658,700	24,164,780	187,015,400	30,786,547

NOTE:--THE CATCH OF 8,733,800 POUNDS OF CATFISH AND BULLHEADS (VALUED AT $1,266,398) AND 302,200 POUNDS OF SOFT-SHELL TURTLES (VALUED AT $24,176) TAKEN FROM THE INLAND LAKES IS INCLUDED WITH THE CATCH FOR THE EAST COAST OF FLORIDA. FOR THE PURPOSE OF THIS REPORT THE "EAST COAST OF FLORIDA" INCLUDES THE COASTAL COUNTIES FROM NASSAU TO DADE, INCLUSIVE, WHILE THE "WEST COAST OF FLORIDA" INCLUDES THOSE FROM MONROE TO ESCAMBIA, INCLUSIVE.

SOUTH ATLANTIC STATES CATCH, 1964



SOUTH ATLANTIC SHRIMP FISHERY

South Atlantic shrimp landings of 11.0 million pounds (heads-off) were below normal, although they surpassed by 1.1 million pounds the 1963 landings--the lowest on record since 1908. A strong consumer demand for shrimp throughout most of the year resulted in higher ex-vessel prices, and fishermen were paid $1.4 million more than in 1963. A major factor in the continued low landings was the shortage of white shrimp in South Carolina waters; only 516,000 pounds were taken--332,300 pounds more than in 1963, but well below the 2.0 to 2.5 million-pound level considered a good yearly production. The second successive year of poor production caused economic hardship among vessel owners and wholesale dealers, and some fishermen shifted to Gulf ports.

A greater abundance of pink shrimp in North Carolina brought total shrimp landings to 2.7 million pounds, 600,000 pounds more than in 1963. As the fall was unusually warm, quantities of shrimp (principally pink) remained in inside waters accessible to trawlers. Landings of brown shrimp in North Carolina were 17 percent below those of the previous year.

Georgia also had a shortage of white shrimp; however, brown shrimp landings (1.2 million pounds) were near normal. Ex-vessel price increases during peak production periods and a greater proportion of larger size shrimp partially offset the relatively poor volume. Georgia shrimp trawlers fished for royal red shrimp and landed 25,400 pounds--about the same level as the previous year.

At Florida East Coast ports, total shrimp landings (2.9 million pounds) and species composition were nearly the same as in 1963. A few Florida shrimp trawlers landed 73,700 pounds of royal red shrimp. None of this species was landed the previous year.

The quantities shown in the following tables are heads-off weight of the shrimp and are not directly comparable with the volume data published in the General Review, regional tables, or the Review of Certain Major Fisheries, which represent the round weight of the catch.

The pounds of heads-off shrimp may be converted to heads-on (round) weight by multiplying brown by 1.61; pink, 1.60; white, 1.54; seabobs, 1.53; and royal red, by 1.80.

Detailed information on 1964 landings of shrimp in the South Atlantic States, by months for each State, was published in Current Fishery Statistics No. 3785.

SHRIMP TRAWLER

SUMMARY OF SHRIMP LANDINGS, 1964

SIZE	BROWN		PINK		WHITE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
15 - 20	246,902	$176,125	61,066	$43,229	165,744	$145,724
21 - 25	530,812	366,903	91,692	61,382	1,167,714	910,623
26 - 30	1,241,223	787,975	129,123	83,145	1,175,366	830,571
31 - 40	1,786,915	979,909	388,744	225,682	1,302,211	824,558
41 - 50	375,789	168,603	246,411	110,808	711,420	380,127
51 - 67	194,768	72,241	274,596	103,179	580,161	245,317
68 AND OVER	27,079	7,340	25,898	8,644	169,603	52,466
TOTAL	4,403,488	2,559,096	1,217,530	636,069	5,272,219	3,389,386

SIZE	ROYAL RED		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE
15 - 20	3,108	$2,028	476,820	$367,106
21 - 25	33,884	21,610	1,824,102	1,360,518
26 - 30	1,227	741	2,546,939	1,702,432
31 - 40	-	-	3,477,870	2,030,149
41 - 50	36,843	16,059	1,370,463	675,597
51 - 67	24,091	8,806	1,073,616	429,543
68 AND OVER	-	-	222,580	68,450
TOTAL	99,153	49,244	10,992,390	6,633,795

PINK SHRIMP

SOUTH ATLANTIC SHRIMP LANDINGS, BY SPECIES AND SIZE, 1964

SPECIES AND SIZE	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BROWN:						
15 - 20	246,311	$175,650	-	-	283	$223
21 - 25	285,127	191,158	36,960	$24,848	111,361	82,086
26 - 30	218,833	136,310	323,966	201,017	463,881	296,818
31 - 40	415,108	241,848	601,815	303,260	582,780	322,573
41 - 50	154,800	72,284	151,032	62,373	38,466	18,145
51 - 67	122,004	46,866	24,545	7,363	20,254	7,492
68 AND OVER	2,759	773	1,000	220	4,460	1,249
TOTAL	1,444,942	864,889	1,139,318	599,081	1,221,485	728,586
PINK:						
15 - 20	61,066	43,229	-	-	-	-
21 - 25	88,492	59,206	-	-	3,200	2,176
26 - 30	129,123	83,145	-	-	-	-
31 - 40	388,744	225,682	-	-	-	-
41 - 50	242,511	109,053	-	-	3,900	1,755
51 - 67	274,596	103,179	-	-	-	-
68 AND OVER	25,898	8,644	-	-	-	-
TOTAL	1,210,430	632,138	-	-	7,100	3,931

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SOUTH ATLANTIC SHRIMP LANDINGS

BY SPECIES AND SIZE, 1964 - Continued

SPECIES AND SIZE	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
WHITE:						
15 - 20	-	-	-	-	2,095	$1,794
21 - 25	2,562	$1,742	45,806	$29,774	184,921	149,550
26 - 30	3,587	2,224	133,598	80,161	474,554	345,423
31 - 40	4,099	2,295	176,466	92,062	849,708	555,194
41 - 50	-	-	102,089	42,877	493,943	275,459
51 - 67	-	-	58,052	17,416	453,539	199,825
68 AND OVER	-	-	-	-	82,512	25,425
TOTAL	10,248	6,261	516,011	262,290	2,541,272	1,552,670
ROYAL RED:						
21 - 25	-	-	-	-	12,594	8,261
41 - 50	-	-	-	-	574	241
51 - 67	-	-	-	-	12,276	4,447
TOTAL	-	-	-	-	25,444	12,949
GRAND TOTAL	2,665,620	1,503,288	1,655,329	861,371	3,795,301	2,298,136

SPECIES AND SIZE	FLORIDA, EAST COAST		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE
BROWN:				
15 - 20	308	$252	246,902	$176,125
21 - 25	97,364	68,811	530,812	356,903
26 - 30	234,543	153,830	1,241,223	787,975
31 - 40	187,212	112,228	1,786,915	979,909
41 - 50	31,491	15,801	375,789	168,603
51 - 67	27,965	10,520	194,768	72,241
68 AND OVER	18,860	5,098	27,079	7,340
TOTAL	597,743	366,540	4,403,488	2,559,096
PINK:				
15 - 20	-	-	61,066	43,229
21 - 25	-	-	91,692	61,382
26 - 30	-	-	129,123	83,145
31 - 40	-	-	388,744	225,682
41 - 50	-	-	246,411	110,808
51 - 67	-	-	274,596	103,179
68 AND OVER	-	-	25,898	8,644
TOTAL	-	-	1,217,530	636,069
WHITE:				
15 - 20	163,649	143,930	165,744	145,724
21 - 25	934,425	729,557	1,167,714	910,623
26 - 30	563,627	402,763	1,175,366	830,571
31 - 40	271,938	175,007	1,302,211	824,558
41 - 50	115,388	61,791	711,420	380,127
51 - 67	68,570	28,076	580,161	245,317
68 AND OVER	87,091	27,041	169,603	52,466
TOTAL	2,204,688	1,568,165	5,272,219	3,389,386
ROYAL RED:				
15 - 20	3,108	2,028	3,108	2,028
21 - 25	21,290	13,349	33,884	21,610
26 - 30	1,227	741	1,227	741
41 - 50	36,269	15,818	36,843	16,059
51 - 67	11,815	4,359	24,091	8,806
TOTAL	73,709	36,295	99,153	49,244
GRAND TOTAL	2,876,140	1,971,000	10,992,390	6,633,795

NOTE:--ALL WEIGHTS ARE ON HEADS-OFF BASIS. THE SIZE INDICATES THE NUMBER OF HEADS-OFF SHRIMP TO THE POUND. TO CONVERT TO HEADS-ON MULTIPLY BY 1.61 FOR BROWN, 1.60 FOR PINK, 1.54 FOR WHITE, AND 1.80 FOR ROYAL RED. THE AREAS LISTED REPRESENT THE STATES WHERE THE SHRIMP WERE LANDED REGARDLESS OF WHERE CAUGHT. THE NAMES OF THE SPECIES USED IN THESE TABLES ARE AS FOLLOWS: WHITE SHRIMP (MOSTLY PENAEUS SETIFFRUS), BROWN SHRIMP (PENAEUS AZTECUS, AND IN SOME CASES PENAEUS BRASILIENSIS), PINK SHRIMP (PENAEUS DUORARUM), AND ROYAL RED (HYMENOPENAEUS ROBUSTUS). THE VALUE REPORTED IS THE AMOUNT RECEIVED BY THE OWNERS OR OPERATORS OF THE VESSEL FOR THE FIRST SALE AT THE DOCK. ANY EXPENSES INVOLVED IN HANDLING OR PROCESSING ASHORE ARE NOT INCLUDED, EVEN THOUGH CHARGEABLE TO THE VESSEL. THE SIZE REPORTED GENERALLY IS THAT USED AS OF THE FIRST SALE. SIZE GRADING IN VARYING DEGREES OF UNIFORMITY MAY OR MAY NOT OCCUR AT, OR PRIOR TO, THE TIME FIRST SALES ARE MADE. IF GRADING IS NOT DONE AT THIS TIME, THE SIZE REPORTED IS AN AVERAGE SIZE AND MAY INCLUDE SEVERAL SIZE CLASSIFICATIONS.

SOUTH ATLANTIC FISHERIES

SURVEY PROCEDURE IN THE SOUTH ATLANTIC STATES

Statistical programs in the South Atlantic States are under the general supervision of the Bureau's Regional Office in St. Petersburg Beach, Fla., and direct supervision of a Regional Supervisor stationed in New Orleans, La. Collection of data is carried out by Fishery Reporting Specialists trained in obtaining and reporting fishery statistical data. They are stationed in Beaufort, N.C.; Charleston, S.C.; Brunswick, Ga.; and Miami, Fla. Supervisory field personnel are also stationed in Beaufort, N.C. and Miami, Fla.

Catch Statistics: The collection of catch statistics is a joint venture of the Bureau of Commercial Fisheries and the States of North Carolina, South Carolina, Georgia, and Florida. Standard forms designed for the needs of each State, the Bureau, and industry are used to collect catch data in each State. Forms are mailed to dealers or buyers each month with a request that they be completed and returned by a specified date. The forms provide for reporting the pounds and value of the species purchased from fishermen, or caught by the producers' fleets. Forms not returned by the deadline date are picked up by Bureau or State employees. The data, which are tabulated for publication in monthly landings bulletins for the various States, show the volume of the catch of each species by county or district and the total value of each species.

When there are revisions in the monthly data already published, corrections are made in the cumulative totals in the current monthly bulletin. The revised figures for the individual months appear in the annual bulletin. Field reporting specialists interview fishermen and dealers to obtain annual information on the quantity of each species taken by the types of gear operated and the various bodies of water in which the catch was made. When the interviewing has been completed and the catch has been credited to the respective gears and water areas, an annual report is prepared on a specially designed form showing volume and value of the catch by species, gear, and area of capture. The forms are then forwarded to the Washington Office where the data are machine processed. The figures are reviewed in the Central office and by field personnel concerned with the survey. When all discrepancies have been reconciled, the data are published in a sectional summary in the Current Fishery Statistics series entitled "South Atlantic Fisheries" and, subsequently, in the Digest, "Fishery Statistics of the United States."

Data on the catch by water area for the South Atlantic States are not published. However, the information is machine processed and supplied to State and federal offices and laboratories in the area. Information on the catch by counties has not been published in the Digest since 1960. However, the data are prepared and copies of the tabulations are maintained in the Central office.

Operating Units: Field reporting specialists are supplied with a set of prepunched IBM vessel cards obtained from the Bureau of Customs. The cards are prepunched with the following information: name, official number, rig code, gross tonnage, length, and year built. The reporting specialist, through interviews, obtains data on the number of crew; and number, type, and quantity of gear utilized by the vessel during the year. The number and quantity of gear is the greatest quantity fished at one time. It does not include replacement gear aboard the vessel or ashore.

When the reporter has completed the entries on the vessel cards, they are forwarded to the Regional Supervisor who arranges for the punching and tabulating of the data. The tabulations are then forwarded to the reporter who prepares operating unit tables for the State. Data on the shore and boat fishery (those craft of less than 5 net tons and fishermen operating without benefit of craft along the shore) which have been assembled by the reporter by personal interview and from State records are entered on the State operating unit tables in much the same manner as for the vessel fishery. Lists of boat and shore fishermen are usually maintained in the files of the reporter.

When all reconciliation of the data has been accomplished in the Region, the operating unit tabulations are forwarded to the Washington office. If discrepancies are discovered, these are reconciled. Summary operating unit data are then published in a section CFS bulletin entitled "South Atlantic Fisheries." These data and detailed information on the operating units by gear are published in the annual Digest. Information on the operating units by counties is prepared but has not been published in the Digest since 1960. Copies of the tabulations are prepared each year and are on file in the Central office.

Processed Fishery Products: Information on the production of processed fishery products (canned, fresh and frozen packaged fish and shellfish, "cured" items, and industrial fishery products) is obtained from processors through the use of especially designed questionnaires. Data are obtained on the monthly production of fish meal, oil, and solubles, fish sticks, portions, and breaded shrimp and published currently during the year. Statistics on the production of other processed products are obtained annually.

Individual monthly and annual reports are forwarded to the Washington office for tabulation and publication of the data. Monthly data are published in bulletins entitled "Fish Meal and Oil" and "Fish Sticks, Fish Portions, and Breaded Shrimp." The latter is released quarterly. Annual data are released in bulletins entitled "Canned Fishery Products;" "Industrial Fishery Products" (fish meal, oil, and solubles, etc.); "Packaged Fishery Products" (fresh and frozen fillets and steaks); and "Manufactured Fishery Products." The latter report contains a summary of the data contained in the monthly and annual processed bulletins and also information on the annual production of packaged shellfish and cured fishery products.

The Fishery Market News office in Hampton, Va., covers part of the North Carolina area on a daily basis. Persons interested in current day-to-day trends should consult that office. The monthly landings bulletins represent the best available information on a monthly and seasonal basis and the Statistical Digest represents the most complete annual data available in Bureau records.

Annual statistical surveys of the fisheries of the South Atlantic States have been made for the following years:

Data for:	Title of Publication
1880	The Fisheries and Fishery Industries of the United States, Section II, Senate Document No. 124, 47th Congress, 1887
1887	Report of the Commissioner of Fisheries for 1888
1888	Report of the Commissioner of Fisheries for 1888
1889	Bulletin of the United States Fish Commission, 1891
1890	Bulletin of the United States Fish Commission, 1891
1897	Report of the Commissioner of Fisheries for the Year Ending June 30, 1889
1902	Report of the Commissioner of Fisheries for the Year Ending June 30, 1903
1908	Fisheries of the United States, 1908, Bureau of the Census
1918	Fishery Industries of the United States, 1920
1923	Fishery Industries of the United States, 1924
1927	Fishery Industries of the United States, 1928
1928	Fishery Industries of the United States, 1929
1929	Fishery Industries of the United States, 1930
1930	Fishery Industries of the United States, 1931
1931	Fishery Industries of the United States, 1932
1932	Fishery Industries of the United States, 1932
1934	Fishery Industries of the United States, 1935
1936	Fishery Industries of the United States, 1937
1937	Fishery Industries of the United States, 1938
1938	Fishery Industries of the United States, 1939
1939	Fishery Statistics of the United States, 1939
1940	Fishery Statistics of the United States, 1940
1945	Fishery Statistics of the United States, 1945
1950	Fishery Statistics of the United States, 1950
1951	Fishery Statistics of the United States, 1951
1952	Fishery Statistics of the United States, 1952
1953	Fishery Statistics of the United States, 1953
1954	Fishery Statistics of the United States, 1954
1955	Fishery Statistics of the United States, 1955
1956	Fishery Statistics of the United States, 1956
1957	Fishery Statistics of the United States, 1957
1958	Fishery Statistics of the United States, 1958
1959	Fishery Statistics of the United States, 1959
1960	Fishery Statistics of the United States, 1960
1961	Fishery Statistics of the United States, 1961
1962	Fishery Statistics of the United States, 1962
1963	Fishery Statistics of the United States, 1963
1964	Fishery Statistics of the United States, 1964

SECTION 6 - GULF FISHERIES

The commercial catch of fish and shellfish landed at ports of the Gulf States (West Coast of Florida, Alabama, Mississippi, Louisiana, and Texas) was 1.3 billion pounds, with a dockside value of $99.3 million. Compared with 1963, this was a decrease of 81.7 million pounds, but an increase of $500,000. Landings of most major items declined.

Despite a 56.1-million-pound drop, Louisiana remained the leading State in volume of landings. Mississippi production was 9.4 million pounds less than the previous year, and Texas declined 21.3 million pounds. West Coast of Florida landings were about 5 million pounds greater than the previous year, while Alabama had a gain of 179,000 pounds.

Fishermen and vessels. Although not a record year for any major fishery, favorable prices attracted additional fishermen, and the total was 25,171--688 more than in 1963. The increase was divided about equally between those aboard vessels (craft of 5 net tons and over) and on boats (craft under 5 net tons). The vessel fleet grew to 3,582--213 more than in 1963. According to Bureau of Customs records, 221 vessels in the Gulf area received first documents as fishing craft during 1964, compared with 239 the previous year. As in 1963, about 50 ofthe new vessels joined the U.S.-flag shrimp fleet operating in Caribbean waters.

Processing. There was a slight decline in the value of processed fishery products--$173.2 million during 1964, compared with the record $174.2 million in 1963. Reduced supplies of domestic shrimp for canning resulted in a 38-percent decline in the volume and 32-percent in the value of the canned pack. Producers of breaded shrimp were not affected by the reduced catch, since imports, suitable for breading, were at record levels, and breaded shrimp production reached new highs in volume and value.

Weather. Four hurricanes (Cleo, Dora, Hilda, and Isabelle) threatened the Gulf fishing industry during 1964, but, fortunately, the storms did not come ashore where plants and fishing fleets were concentrated. Some plants were damaged by water, a few nets and traps were lost, but fishing craft received little or no damage.

The January--March period was somewhat milder than in 1962 and 1963, and very few days had below-freezing temperature. During the winter, rainfall was above normal, but in the summer it was below average.

Labor. Union organizing activity among menhaden fishermen, started the previous year, was successful, and by the end of 1964 the majority of Gulf plants had signed contracts with the union representing the fishermen. There was also some union-organizing activity in shrimp processing plants and, in November, employees of a major shrimp plant in Brownsville, Tex., voted for union representation.

Shrimp. Nearly all segments of the industry enjoyed a good year. Fishermen were particularly fortunate--although catches for the area were 12 percent below those of 1963, the value dropped only 1 percent. In Louisiana, landings were down 21.4 million pounds (heads-on basis) owing to a poor brown shrimp season; similarly affected by a scarcity of brown shrimp were Mississippi and Alabama, where landings were 3.0 million and 500,000 pounds, respectively, below the previous year. Texas production was down 4.2 million pounds. West Coast of Florida landings were up 5 million pounds because of a greater abundance of shrimp on the Tortugas grounds and good catches in the Caribbean area.

At the beginning of the year, the shrimp industry was quite concerned about future market conditions--cold storage holdings of raw, headless, and breaded shrimp were at record levels, and canned pack inventories were higher than usual. A concerted industry advertising campaign, with Bureau assistance, helped to stimulate demand. As the year progressed, the market for nearly all processed shrimp products strengthened appreciably, and consumers increased their demand for shrimp despite relatively higher prices. The strong demand was reflected in higher ex-vessel prices, which averaged 35 cents per pound compared with 31 cents the previous year.

U.S.-flag shrimp trawlers continued to be active in the Caribbean area. The majority unloaded at U.S.-owned plants in countries bordering the Caribbean Sea and after processing and freezing, the shrimp were exported to the United States.

Operations off foreign coasts were not without hazards. Honduran authorities seized 10 Tampa-based shrimp trawlers during July. Crews of the vessels were charged with violating Honduran laws relating to territorial waters. Craft and crews were released after substantial fines were paid.

Menhaden. A strong demand and excellent prices for industrial products throughout the year partially offset a reduction of 63.6 million pounds in menhaden landings compared with 1963. Much of the decrease was due to the hurricanes, which limited fishing near the close of the season. Estimates of actual lost fishing time ranged from 15 to 25 days. In addition to the winds and rough seas that hampered fishing, storms evidently so dispersed the schools that fishable concentrations were not found for several days after the storms had passed. Oil yields were the best in many years, primarily because larger menhaden predominated in the catches.

Other industrial fish. Landings of 86.9 million pounds were 6.7 million pounds more than in the previous year. Most of the fish was used to produce canned pet food.

Oysters. Gulf production (23.4 million pounds) was only 3 percent less than the 1963 catch. Texas had a new volume record. Although Mississippi and Alabama did not have record productions, the volume exceeded that of the preceding year. Louisiana landings (11.4 million pounds) were only slightly less than in 1963, but the West Coast of Florida (2.8 million pounds) was down 35 percent. During the fall season, however, large quantities of small oysters in Florida's principal producing areas (Apalachicola-Eastpoint) aroused optimism that the decline was only temporary. There was a substantial interchange of oysters among producers and processors in the Gulf States--Louisiana oysters were trucked to Alabama and Florida; Mississippi, to Louisiana; Texas, to Louisiana and Mississippi, etc. Less shell stock, however, was trucked to the Atlantic seaboard.

The peak production months (January-April) had extended periods of reduced demand, which resulted in lower prices to fishermen. The strengthening of the market during the fall brought about a slight increase in prices to the fishermen and to processors of shucked oysters.

Blue crabs. Total Gulf landings continued to decline because of poor catches in Louisiana and Texas. Louisiana production of 5.9 million pounds was the lowest since 1931 and 29 percent less than the previous year. The Alabama volume, however, was 36 percent more than in 1963 and the highest since 1949. Landings at West Coast of Florida and Mississippi ports were considerably better than the previous year, but they were well below the average for the prior 5 years. Despite the reduction in the total crab catch, production of crab meat was greater than in 1963, because more crabs were used for processing than for wholesale or retail live sales. A strong demand for crab meat prevailed most of the year. The average price per pound for the area was $1.28 which was 13 cents per pound more than in 1963. Some of the price advance was due to increased labor costs following the new minimum wage laws.

There was some activity in developing a soft-shell-crab industry along the northwest coast of Florida. Supplies of "buster" crabs for this industry were caught by pound nets--the first time this type gear had been used in this area.

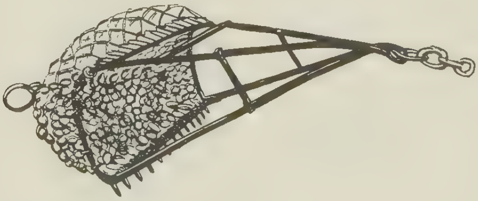
Edible finfish. The total volume and value of edible finfish landings changed little from the previous year, but there were variations in the species that made up the greater portion of the landings. A decline of 53 percent in king mackerel and 27 percent in Spanish mackerel resulted from exceptionally heavy concentrations of sharks in Florida waters. These predators so severely damaged the nets that fishing operations ceased earlier than usual. Red drum fishing in Florida and Texas was poor, and the catch declined 31 percent. Mullet, the perennial volume leader of the edible finfish category, increased 5 percent largely because of aggressive marketing campaigns of industry and government agencies.

Red snapper landings (13.3 million pounds) were only 2 percent less than the record established in 1902, and the increasing popularity of this species periodically created a tight supply during the year. In an attempt to meet the increased demand, several new vessels were added to the fleet. In December, vessels located new grounds off the coast of Honduras; although the area was more distant than the Campeche grounds, better catches and somewhat larger fish compensated for the longer running time.

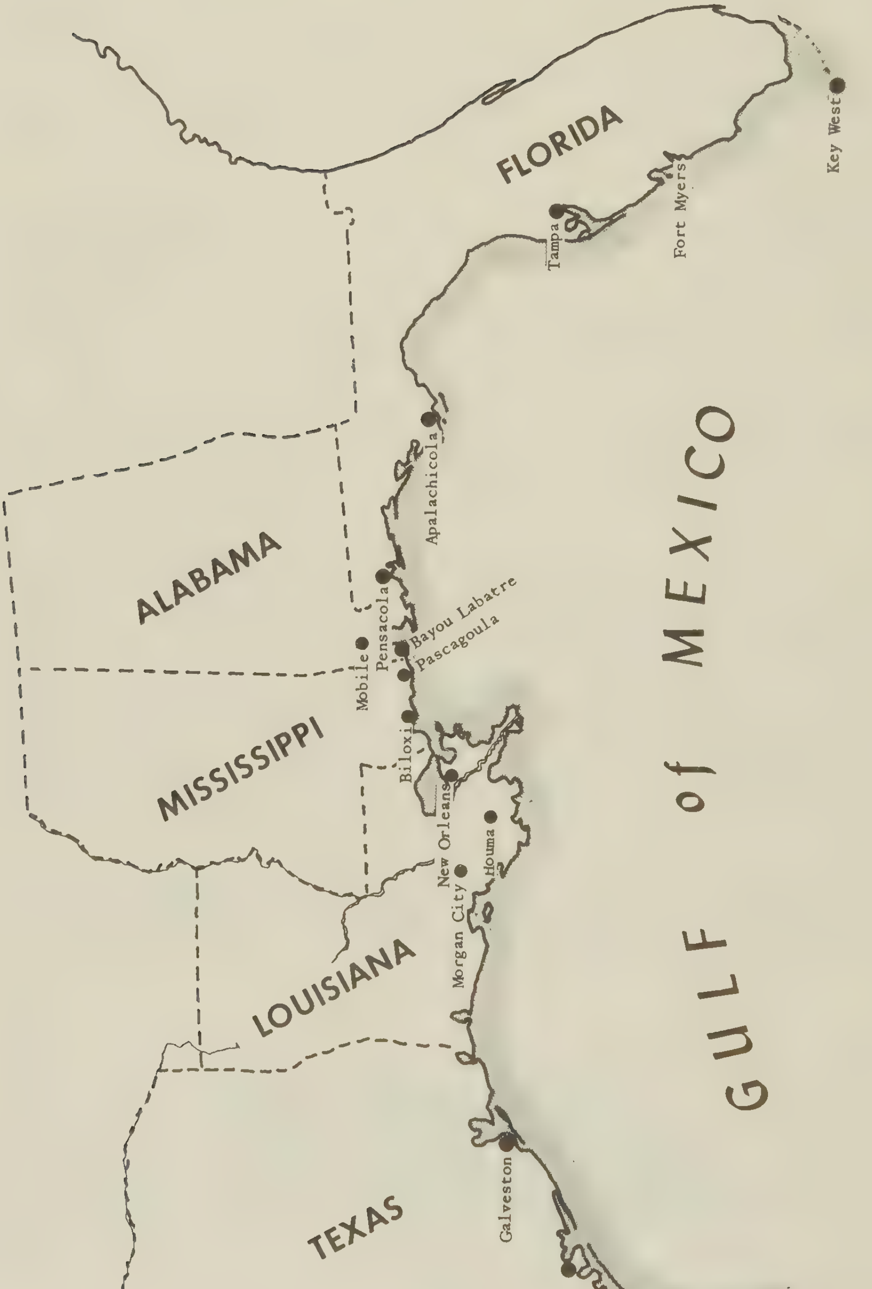
Activities of foreign vessels. Both Soviet and Japanese fishing vessels operated in the Gulf during the year. Soviet fishing vessels were sighted several times, and in June, one was seen about 20 miles off Tarpon Springs, Fla. It is generally assumed that the trawlers were engaged in work of an exploratory nature. A few Japanese longliners also fished for tuna along the 1,000-fathom curve south of the Mississippi River delta during the fall.

Other information. Condensed summary data on operating units and catch by States appearing on the following pages have been previously published in Current Fishery Statistics No. 3929. Data on the catch and operating units of the east coast of Florida and the entire State of Florida may be found in Section 5 of this Digest. Seasonal variations in the catch of fish and shellfish in Florida, Alabama, Mississippi, Louisiana, and Texas can be ascertained from monthly landing bulletins issued currently for these States in cooperation with the fishery agencies of each State. Additional aspects of the Gulf fisheries may be found in daily, monthly, and annual reports published by the Bureau's Fishery Market News Service, Federal Building, 600 South Street, New Orleans, La. 70130. Specific and detailed accomplishments of the Bureau are contained in Report of the Bureau of Commercial Fisheries, Calendar Year 1964.

Acknowledgments. The following organizations assisted the Bureau to collect the data appearing in this Section: Florida State Board of Conservation, Alabama Department of Conservation, Mississippi Marine Conservation Commission, Louisiana Wild Life and Fisheries Commission, and Texas Parks and Wildlife Department.



OYSTER DREDGE


FLORIDA
ALABAMA
MISSISSIPPI
LOUISIANA
TEXAS
GULF of MEXICO
Key West
Fort Myers
Tampa
Apalachicola
Pensacola
Bayou Labatre
Pascagoula
Mobile
Biloxi
New Orleans
Houma
Morgan City
Galveston
Port Lavaca
Aransas Pass
Brownsville

GULF STATES

GULF FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF CATCH, 1964

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

STATE	FISH		SHELLFISH, ETC.		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
FLORIDA, WEST COAST.	69	7	61	17	130	24
ALABAMA.	5	1	10	3	15	4
MISSISSIPPI.	320	5	12	3	332	8
LOUISIANA.	618	11	78	23	696	34
TEXAS.	73	2	72	27	145	29
TOTAL.	1,085	26	233	73	1,318	99

NOTE:--FOR THE PURPOSE OF THIS REPORT THE "WEST COAST OF FLORIDA" INCLUDES THE COASTAL COUNTIES FROM MONROE TO ESCAMBIA, INCLUSIVE.

SUMMARY OF OPERATING UNITS, 1964

ITEM	FLORIDA, WEST COAST	ALABAMA	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	3,932	773	2,039	5,072	4,469	11,744
ON BOATS AND SHORE:						
REGULAR	3,034	742	628	3,752	911	8,990
CASUAL.	1,618	218	401	1,583	617	4,437
TOTAL	8,584	1,733	3,068	10,407	5,997	25,171
VESSELS, MOTOR.	1,278	251	585	1,602	1,479	3,582
GROSS TONNAGE	50,070	9,356	24,777	70,825	74,402	151,665
BOATS:						
MOTOR	3,391	564	899	4,289	1,056	10,149
OTHER	187	113	120	128	47	595
GEAR:						
HAUL SEINES, COMMON . . .	81	5	-	12	16	114
LENGTH, YARDS	55,600	1,500	-	3,867	4,600	65,567
PURSE SEINES:						
MENHADEN.	-	-	21	50	8	76
LENGTH, YARDS	-	-	10,590	21,730	4,000	35,120
OTHER	6	-	-	-	-	6
LENGTH, YARDS	1,200	-	-	-	-	1,200
OTTER TRAWLS:						
CRAB.	5	-	-	-	-	5
YARDS AT MOUTH. . . .	93	-	-	-	-	93
FISH.	3	-	109	11	-	123
YARDS AT MOUTH. . . .	87	-	1,995	186	-	2,268
SHRIMP.	1,805	617	1,003	5,286	3,304	9,178
YARDS AT MOUTH. . . .	27,470	9,482	14,044	75,010	47,858	130,234
POUND NETS, CRAB.	40	-	-	-	-	40
FYKE AND HOOP NETS, FISH.	-	420	-	11,109	10	11,539
POTS AND TRAPS:						
CRAB:						
BLUE.	48,885	6,400	2,930	3,250	8,680	70,145
OTHER	20,974	-	-	-	-	20,974
CRAWFISH.	-	-	-	8,980	-	8,980
FISH.	-	196	-	464	-	660
LOBSTER, SPINY.	73,553	-	-	-	-	73,553
GILL NETS:						
ANCHOR, SET OR STAKE. .	4	-	-	197	55	256
SQUARE YARDS.	2,920	-	-	63,974	36,600	103,494
DRIFT	14	-	-	-	-	14
SQUARE YARDS.	41,100	-	-	-	-	41,100
RUNAROUND	1,113	10	-	-	-	1,123
SQUARE YARDS.	1,667,618	5,600	-	-	-	1,673,218
TRAMMEL NETS.	297	104	34	113	86	634
SQUARE YARDS.	361,701	104,000	26,800	39,501	52,372	584,374
LINES:						
HAND.	2,979	205	184	680	746	4,561
HOOKS	8,448	1,068	982	1,198	4,740	14,647
TROLL	1,299	-	-	-	-	1,299
HOOKS	1,299	-	-	-	-	1,299
LONG OR SET WITH HOOKS.	72	4	-	1,613	141	1,830
HOOKS	3,800	1,200	-	602,352	167,300	774,652
TROT WITH BAITS	11	18	11	750	6	796
BAITS	6,600	8,100	5,500	427,000	2,000	449,200
DIP NETS:						
COMMON.	66	-	-	37	-	103
DROP.	160	-	-	29,032	-	29,192

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1964 - Continued

ITEM	FLORIDA, WEST COAST	ALABAMA	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
GEAR - CONTINUED:						
CAST NETS	15	-	6	-	-	21
SPEARS.	31	36	20	-	181	268
DREDGES:						
OYSTER, COMMON.	-	6	464	772	275	1,381
YARDS AT MOUTH. . . .	-	6	560	880	275	1,570
SCALLOP	57	-	-	-	-	57
YARDS AT MOUTH. . . .	58	-	-	-	-	58
TONGS:						
OYSTER.	787	666	550	493	32	2,508
OTHER	8	-	-	-	-	8
RAKES	1	-	-	-	-	1
BRUSH TRAPS	-	-	-	28,275	-	28,275
GRABS, FROG	-	-	-	46	-	46
HOOKS, SPONGE	46	-	-	-	-	46
DIVING OUTFITS.	12	-	-	-	-	12

CATCH BY STATES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES.	433	16	-	-	-	-
AMBERJACK	10	(1)	-	-	-	-
BALLYHOO.	887	125	-	-	-	-
BARRACUDA	2	(1)	-	-	-	-
BLUEFISH.	779	77	11	1	15	1
BLUE RUNNER	1,210	28	(1)	(1)	-	-
BUFFALOFISH	-	-	68	7	-	-
CABIO	10	1	(1)	(1)	1	(1)
CATFISH AND BULLHEADS . . .	81	15	45	12	-	-
CIGARFISH	502	36	-	-	-	-
CREVALLE.	537	13	-	-	-	-
CROAKER	64	4	3	(1)	(1)	(1)
DOLPHIN	22	2	-	-	-	-
DRUM:						
BLACK	88	5	17	2	46	3
RED	699	90	19	3	50	7
FLOUNDERS	204	46	162	25	57	8
GROUPERS.	7,662	823	305	44	268	29
GRUNTS.	37	3	-	-	-	-
HOGFISH	21	3	-	-	-	-
JEWFISH	86	8	118	12	-	-
KING MACKEREL	1,314	110	-	-	-	-
KING WHITING OR "KINGFISH".	232	10	575	29	323	20
MENHADEN.	84	2	-	-	237,833	3,131
MOJARRA	105	8	-	-	-	-
MULLET:						
BLACK	34,996	1,928	1,072	56	250	12
SILVER.	545	33	-	-	-	-
PADDLEFISH.	-	-	10	1	-	-
PERMIT.	18	2	-	-	-	-
PIGFISH	13	1	-	-	-	-
POMPANO	625	388	2	1	(1)	(1)
SCUP OR PORGY	54	5	-	-	-	-
SEA CATFISH	237	14	13	1	17	1
SEA TROUT OR WEAKFISH:						
SPOTTED	2,799	706	65	16	148	31
WHITE	43	4	65	3	26	1
SHARKS, UNCLASSIFIED. . . .	1	(1)	-	-	-	-
SHEEPSHEAD:						
FRESH-WATER	-	-	15	2	-	-
SALT-WATER.	214	19	35	2	49	4

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
FISH - CONTINUED						
SNAPPER:						
MANGROVE	325	58	-	-	-	-
MUTTON	134	30	-	-	-	-
RED	6,532	2,009	2,393	685	1,849	461
VERMILION	90	15	-	-	-	-
YELLOWTAIL	896	220	-	-	-	-
SPANISH MACKEREL	3,880	370	74	8	1	(1)
SPOT	353	26	14	1	7	1
STURGEON	9	2	(1)	(1)	-	-
TENPOUNDER	842	19	-	-	-	-
TILEFISH	(1)	(1)	-	-	-	-
TRIGGERFISH	24	1	-	-	-	-
TRIPLETAIL	1	(1)	-	-	-	-
WARSAW	159	12	-	-	-	-
UNCLASSIFIED:						
FOR FOOD	933	67	-	-	-	-
BAIT, REDUCTION, AND ANIMAL FOOD	248	6	-	-	78,425	1,349
TOTAL FISH	69,040	7,360	5,081	911	319,365	5,059
SHELLFISH, ETC.						
CRABS:						
BLUE:						
HARD	14,068	843	1,762	110	1,286	82
SOFT AND PEELER	13	7	-	-	2	(1)
STONE	752	233	-	-	-	-
TOTAL CRABS	14,833	1,083	1,762	110	1,288	82
LOBSTERS, SPINY	2,845	1,212	-	-	-	-
SHRIMP	39,966	13,322	7,215	2,630	6,416	1,805
CLAMS, HARD, PUBLIC	72	24	-	-	-	-
CONCHS	2	1	-	-	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING	1,478	413	745	223	3,083	619
FALL	1,185	331	186	74	621	222
PRIVATE:						
SPRING	71	20	52	18	869	165
FALL	59	17	22	9	256	93
TOTAL OYSTERS	2,793	781	1,005	324	4,829	1,099
SCALLOPS, BAY	18	14	-	-	-	-
SQUID	15	1	4	(1)	-	-
TURTLES:						
GREEN	30	4	-	-	-	-
LOGGERHEAD	1	(1)	-	-	-	-
TOTAL TURTLES	31	4	-	-	-	-
SPONGES:						
GRASS	2	3	-	-	-	-
SHEEPSWOOL	35	348	-	-	-	-
YELLOW	7	12	-	-	-	-
TOTAL SHELLFISH, ETC.	60,619	16,805	9,986	3,064	12,533	2,986
GRAND TOTAL	129,659	24,165	15,067	3,975	331,898	8,045

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	LOUISIANA		TEXAS		TOTAL	
FISH - CONTINUED	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES.	-	-	-	-	433	16
AMBERJACK	-	-	-	-	10	(1)
BALLYHOO.	-	-	-	-	887	125
BARRACUDA	-	-	-	-	2	(1)
BLUEFISH.	-	-	-	-	805	79
BLUE RUNNER	-	-	-	-	1,210	28
BOWFIN.	3	(1)	-	-	3	(1)
BUFFALOFISH	845	92	42	6	955	105
CABIO	(1)	(1)	14	1	25	2
CARP.	22	1	3	(1)	25	1
CATFISH AND BULLHEADS . . .	6,070	1,425	27	9	6,223	1,461
CIGARFISH	-	-	-	-	502	36
CREVALLE.	-	-	-	-	537	13
CROAKER	20	1	1	(1)	88	5
DOLPHIN	-	-	-	-	22	2
DRUM:						
BLACK	306	23	1,409	125	1,866	158
RED	312	50	447	112	1,527	262
FLOUNDERS	190	25	305	77	918	181
GARFISH	1,045	51	64	3	1,109	54
GROUPERS.	13	1	191	19	8,439	916
GRUNTS.	-	-	-	-	37	3
HOGFISH	-	-	-	-	21	3
JEWFISH	2	(1)	3	(1)	209	20
KING MACKEREL	-	-	-	-	1,314	110
KING WHITING OR "KINGFISH".	472	27	253	12	1,855	98
MENHADEN.	599,538	9,046	66,686	822	904,141	13,001
MOJARRA	-	-	-	-	105	8
MULLET:						
BLACK	22	1	5	(1)	36,345	1,997
SILVER.	-	-	-	-	545	33
PADDLEFISH.	1	(1)	-	-	11	1
PERMIT.	-	-	-	-	18	2
PIGFISH	-	-	-	-	13	1
POMPANO	9	6	6	2	642	397
SAWFISH	4	(1)	-	-	4	(1)
SCUP OR PORGY	-	-	-	-	54	5
SEA CATFISH	60	3	41	3	368	22
SEA TROUT OR WEAKFISH:						
SPOTTED	290	68	978	252	4,280	1,073
WHITE	66	5	-	-	200	13
SHARKS, UNCLASSIFIED. . . .	3	(1)	-	-	4	(1)
SHEEPSHEAD:						
FRESH-WATER	159	16	1	(1)	175	18
SALT-WATER.	138	11	244	27	680	63
SNAPPER:						
MANGROVE.	-	-	-	-	325	58
MUTTON.	-	-	-	-	134	30
RED	310	78	2,250	631	13,334	3,864
VERMILION	-	-	-	-	90	15
YELLOWTAIL.	-	-	-	-	896	220
SPANISH MACKEREL.	2	(1)	-	-	3,957	378
SPOT.	5	(1)	-	-	379	28
STURGEON.	-	-	-	-	9	2
TENPOUNDER.	-	-	-	-	842	19
TILEFISH.	-	-	-	-	(1)	(1)
TRIGGERFISH	-	-	-	-	24	1
TRIPLETAIL.	3	(1)	-	-	4	(1)
WARSAW.	4	1	30	3	193	16
UNCLASSIFIED:						
FOR FOOD.	-	-	133	9	1,066	76
BAIT, REDUCTION, AND ANIMAL FOOD.	8,166	102	19	1	86,858	1,458
TOTAL FISH.	618,080	11,033	73,152	2,114	1,084,718	26,477
SHELLFISH, ETC.						
CRABS:						
BLUE:						
HARD.	5,692	379	2,484	175	25,292	1,589
SOFT AND PEELER	200	127	(1)	(1)	215	134
STONE	-	-	-	-	752	233
TOTAL CRABS	5,892	506	2,484	175	26,259	1,956

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY STATES, 1964 - Continued

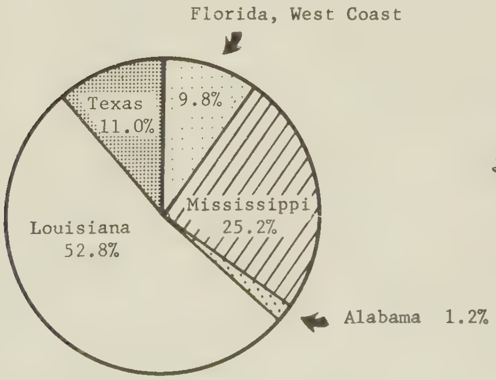
(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

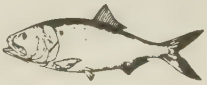
SPECIES	LOUISIANA		TEXAS		TOTAL	
SHELLFISH, ETC. - CONTINUED	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CRAWFISH, FRESH-WATER . . .	1,340	238	-	-	1,340	238
LOBSTERS, SPINY	-	-	-	-	2,845	1,212
SHRIMP.	59,382	18,794	66,053	26,144	179,032	62,695
CLAMS, HARD, PUBLIC	-	-	-	-	72	24
CONCHS.	-	-	-	-	2	1
OYSTERS, MARKET:						
PUBLIC:						
SPRING.	1,194	244	1,901	599	8,401	2,098
FALL.	132	53	1,365	456	3,489	1,136
PRIVATE:						
SPRING.	7,808	1,720	66	28	8,866	1,951
FALL.	2,267	959	25	10	2,629	1,088
TOTAL OYSTERS	11,401	2,976	3,357	1,093	23,385	6,273
SCALLOPS, BAY	-	-	-	-	18	14
SQUID	4	1	24	2	47	4
TERRAPIN.	6	1	-	-	6	1
TURTLES:						
BABY.	7	28	-	-	7	28
GREEN	3	(1)	-	-	33	4
LOGGERHEAD.	-	-	-	-	1	(1)
SNAPPER	10	2	-	-	10	2
TOTAL TURTLES	20	30	-	-	51	34
FROGS	15	6	-	-	15	6
SPONGES:						
GRASS	-	-	-	-	2	3
SHEEPSWOOL.	-	-	-	-	35	348
YELLOW.	-	-	-	-	7	12
TOTAL SHELLFISH, ETC.	78,060	22,552	71,918	27,414	233,116	72,821
GRAND TOTAL	696,140	33,585	145,070	29,528	1,317,834	99,298

1/ LESS THAN 500 POUNDS OR $500.

NOTE:--STATISTICS ON THE CATCH ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS AND SPONGES. CLAMS, CONCHS, AND OYSTERS ARE REPORTED IN WEIGHT OF TOTAL MEATS. SCALLOPS ARE REPORTED IN WEIGHT OF EDIBLE MEATS. SPONGES ARE REPORTED IN MARKETED WEIGHT.

GULF STATES CATCH, 1964





TOTAL 1,317,834,000 pounds

CATCH OF CERTAIN SHELLFISH, 1964

(NUMBER AND BUSHELS)

SPECIES		FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CRABS:							
BLUE:							
HARD	NUMBER	29,121,795	$842,704	3,523,400	$110,335	3,703,680	$81,610
SOFT AND PEELER.	DO	45,630	6,567	-	-	5,100	252
STONE.	DO	751,700	232,986	-	-	-	-
CLAMS, HARD, PUBLIC.	U.S. STD. BUSHEL	8,435	23,882	-	-	-	-
CONCHS	DO	129	536	-	-	-	-
OYSTERS, MARKET:							
PUBLIC:							
SPRING	DO	350,440	412,886	177,544	223,410	759,285	619,028
FALL..	DO	362,910	331,856	43,230	73,744	157,165	221,660
PRIVATE:							
SPRING	DO	16,622	19,796	12,452	18,455	213,940	164,632
FALL	DO	17,243	16,604	5,186	8,516	64,937	93,416
SCALLOPS, BAY. . . .	DO	3,411	13,752	-	-	-	-

SPECIES		LOUISIANA		TEXAS		TOTAL	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CRABS:							
BLUE:							
HARD	NUMBER	12,521,740	$379,214	4,248,153	$175,477	53,118,768	$1,589,340
SOFT AND PEELER.	DO	599,700	126,940	1,200	75	651,630	133,834
STONE.	DO	-	-	-	-	751,700	232,986
CLAMS, HARD, PUBLIC.	U.S. STD. BUSHEL	-	-	-	-	8,435	23,882
CONCHS	DO	-	-	-	-	129	536
OYSTERS, MARKET:							
PUBLIC:							
SPRING	DO	232,238	244,105	417,519	598,491	1,937,026	2,097,920
FALL	DO	34,593	52,893	308,673	456,158	906,571	1,136,311
PRIVATE:							
SPRING	DO	1,534,126	1,719,851	18,417	27,635	1,795,557	1,950,369
FALL	DO	604,507	959,303	8,786	10,298	700,659	1,088,137
SCALLOPS, BAY. . . .	DO	-	-	-	-	3,411	13,752

NOTE:--THE CAPACITY OF A U. S. STANDARD BUSHEL IS 2,150.4 INCHES.

AVERAGE WEIGHTS OF CERTAIN SHELLFISH, 1964

SPECIES		FLORIDA, WEST COAST	ALABAMA	MISSISSIPPI	LOUISIANA	TEXAS
		QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
CRABS:						
BLUE:						
HARD	NUMBER PER POUND	2.07	2.00	2.88	2.20	1.71
SOFT AND PEELER.	DO	3.51	-	3.00	3.00	2.40
STONE.	DO	1.00	-	-	-	-
CLAMS, HARD, PUBLIC.	LBS. MEATS PER U.S. STD. BUSHEL	8.50	-	-	-	-
CONCHS	DO	14.00	-	-	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING	DO	4.22	4.20	4.06	5.14	4.55
FALL	DO	3.26	4.29	3.95	3.81	4.42
PRIVATE:						
SPRING	DO	4.25	4.20	4.06	5.09	3.60
FALL	DO	3.44	4.29	3.95	3.75	2.80
SCALLOPS, BAY. . . .	DO	5.39	-	-	-	-

NOTE:--THE CAPACITY OF A U. S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

MANUFACTURED FISHERY PRODUCTS, 1964

ITEM		FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
COD, FILLETS, BREADED FROZEN.	POUNDS	(1)	(1)	-	-	-	-
FLOUNDER FILLETS, FROZEN . .	DO	(1)	(1)	-	-	-	-
GROUPER, FRESH AND FROZEN:							
FILLETS.	DO	353,592	$159,683	(1)	(1)	-	-
STEAKS	DO	724,028	288,546	(1)	(1)	(1)	(1)
MENHADEN:							
MEAL AND SCRAP	TONS	-	-	-	-	24,231	$2,956,182
OIL.	1,000 POUNDS	-	-	-	-	22,184	1,574,343
SOLUBLES	TONS	-	-	-	-	11,777	706,632
MULLET:							
FILLETS, FRESH AND FROZEN.	POUNDS	(1)	(1)	-	-	-	-
CANNED	STANDARD CASES	(1)	(1)	-	-	-	-
SALTED:							
FISH	POUNDS	297,900	33,128	-	-	-	-
ROE.	DO	18,750	14,188	-	-	-	-
CURED AND REFRIGERATED . .	DO	(1)	(1)	-	-	-	-
SMOKED	DO	(1)	(1)	-	-	-	-
SEA TROUT FILLETS, FROZEN. .	DO	(1)	(1)	-	-	-	-
SNAPPER, RED, FRESH AND FROZEN:							
FILLETS.	DO	101,781	87,409	(1)	(1)	-	-
STEAKS	DO	128,800	71,880	(1)	(1)	-	-
SPANISH MACKEREL FILLETS, FROZEN.	DO	801,820	265,741	-	-	-	-
CRABS:							
BLUE:							
COOKED MEAT, FRESH . . .	DO	1,840,517	2,444,476	305,882	$383,198	185,100	203,770
SPECIALTIES, FROZEN (CAKES, BURGERS, DEVILED, STUFFED, ETC.).	DO	43,000	38,650	(1)	(1)	(1)	(1)
CANNED, MEAT	STANDARD CASES	-	-	(1)	(1)	6,328	133,843
STONE, CLAWS, COOKED, FROZEN.	POUNDS	38,242	34,392	-	-	-	-
BACK SHELLS, CLEANED AND POLISHED.	-	-	(1)	-	-	-	-
MEAL AND SCRAP	TONS	(1)	(1)	-	-	-	-
CRAWFISH, CANNED (BISQUE AND BAIT)	STANDARD CASES	(1)	(1)	-	-	-	-
LOBSTERS, SPINY:							
WHOLE COOKED, FROZEN . . .	POUNDS	(1)	(1)	-	-	-	-
TAILS RAW, FROZEN.	DO	(1)	(1)	-	-	-	-
SHRIMP:							
FRESH AND FROZEN:							
RAW, HEADLESS.	DO	5,465,746	4,578,642	2,314,353	1,805,315	(1)	(1)
PEELED (INCLUDING DEVEINED), RAW.	DO	7,836,928	9,168,996	(1)	(1)	(1)	(1)
BREADED, RAW AND COOKED.	DO	19,734,332	14,481,590	(1)	(1)	-	-
SPECIALTIES, FROZEN (BURGERS, STUFFED, GUMBO, ETC.).	DO	(1)	(1)	(1)	(1)	-	-
CANNED, MEAT	STANDARD CASES	-	-	(1)	(1)	81,953	1,747,108
MEAL AND SCRAP	TONS	(1)	(1)	-	-	-	-
CLAMS, HARD, SHUCKED, FRESH.	GALLONS	1,159	4,646	-	-	-	-
CONCH CHOWDER, CANNED. . . .	STANDARD CASES	(1)	(1)	-	-	-	-
OYSTERS:							
SHUCKED, FRESH	GALLONS	273,674	1,591,377	193,797	1,397,831	136,980	890,355
BREADED, FROZEN.	POUNDS	347,080	348,678	-	-	-	-
CANNED, MEATS.	STANDARD CASES	-	-	(1)	(1)	108,544	1,424,196
SHELL LIME AND GRIT. . . .	TONS	-	-	(1)	(1)	-	-
SCALLOPS:							
BAY, SHUCKED, FRESH	GALLONS	2,268	24,840	-	-	-	-
SEA, BREADED, FROZEN . . .	POUNDS	96,860	70,554	-	-	-	-
TURTLES, CANNED SPECIALTIES, (SOUP AND CHOWDER).	STANDARD CASES	312	4,410	-	-	-	-
UNCLASSIFIED PRODUCTS:							
FRESH AND FROZEN, PACKAGED, FILLETS, STEAKS, STICKS, PORTIONS AND OTHER FISH AND SHELLFISH	POUNDS	2,875,354	1,411,358	4,683,319	3,847,223	2,403,000	1,903,294
CANNED:							
ANIMAL FOOD.	STANDARD CASES	-	-	-	-	2,383,939	8,478,585
OTHER FISH AND SHELLFISH.	DO	(2)	(2)	(2)	(2)	-	-
CURED.	POUNDS	(2)	(2)	-	-	-	-
INDUSTRIAL	-	-	70,500	-	(2)	-	(2)
TOTAL.	-	-	35,193,684	-	7,433,567	-	20,018,308

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		LOUISIANA		TEXAS	
		QUANTITY	VALUE	QUANTITY	VALUE
CATFISH FILLETS, FROZEN	POUNDS	(1)	(1)	-	-
COD, FREEZE-DRIED	DO	-	-	(1)	(1)
FLOUNDER, FROZEN, SPECIALTIES (STUFFED)	DO	(1)	(1)	(1)	(1)
MENHADEN:					
MEAL AND SCRAP	TONS	63,351	$7,780,981	(1)	(1)
OIL	1,000 POUNDS	76,990	5,960,534	(1)	(1)
SOLUBLES	TONS	22,270	1,334,413	(1)	(1)
CRABS:					
BLUE:					
COOKED MEAT:					
FRESH	POUNDS	321,268	406,061	309,200	$349,991
FROZEN	DO	(1)	(1)	-	-
SPECIALTIES, FROZEN (CAKES, BURGERS, DEVILED, STUFFED, ETC.)	DO	269,886	184,490	(1)	(1)
CANNED:					
MEAT	STANDARD CASES	(1)	(1)	-	-
SPECIALTIES (BISQUE)	DO	(1)	(1)	-	-
KING, MEAT, FREEZE-DRIED	POUNDS	-	-	(1)	(1)
CRAWFISH:					
MEAT, COOKED FRESH	DO	(1)	(1)	-	-
SPECIALTIES:					
FRESH AND FROZEN (BISQUE)	DO	(1)	(1)	-	-
CANNED (BISQUE AND BAIT)	STANDARD CASES	912	21,066	-	-
SHRIMP:					
FRESH AND FROZEN:					
RAW, HEADLESS	POUNDS	21,078,010	16,650,159	26,437,100	21,236,997
PEELED (INCLUDING DEVEINED):					
RAW	DO	957,364	868,051	8,168,000	9,118,409
COOKED	DO	1,393,562	2,242,885	(1)	(1)
BREADED, RAW AND COOKED	DO	3,835,867	2,480,463	26,685,800	18,497,649
SPECIALTIES, FROZEN (BURGERS, STUFFED, GUMBO, ETC.)	DO	338,151	273,535	(1)	(1)
CANNED:					
MEATS	STANDARD CASES	505,903	10,181,626	(1)	(1)
SPECIALTIES (GUMBO, STEW, ETC.)	DO	4,001	54,220	-	-
FREEZE-DRIED	POUNDS	-	-	(1)	(1)
SUN-DRIED	DO	226,166	460,902	-	-
MEAL AND SCRAP	TONS	(1)	(1)	-	-
OYSTERS:					
SHUCKED:					
FRESH	GALLONS	573,450	3,591,258	252,631	1,648,194
FROZEN	POUNDS	-	-	(1)	(1)
BREADED, FROZEN	DO	-	-	(1)	(1)
SPECIALTIES, FROZEN (DRESSINGS, AND STUFFED)	DO	23,607	20,383	-	-
CANNED:					
MEATS	STANDARD CASES	197,789	2,344,790	-	-
SPECIALTIES (SOUP)	DO	(1)	(1)	-	-
SHELL LIME AND GRIT	TONS	-	-	(1)	(1)
TURTLES, CANNED, SPECIALTIES (SOUP AND CHOWDER)	STANDARD CASES	585	8,887	-	-
UNCLASSIFIED:					
FRESH AND FROZEN PACKAGED:					
FILLETS, STEAKS, STICKS, PORTIONS AND OTHER FISH AND SHELLFISH	POUNDS	318,786	278,974	1,278,278	1,757,222
CANNED, OTHER FISH AND SHELLFISH	STANDARD CASES	1,774	29,878	(2)	(2)
CURED	POUNDS	-	-	(2)	(2)
INDUSTRIAL	-	-	(2)	-	2,805,554
TOTAL	-	-	55,173,556	-	55,414,016

1/ INCLUDED WITH UNCLASSIFIED.
2/ INCLUDED WITH UNCLASSIFIED FISH AND SHELLFISH.

NOTE:--SOME OF THE PRODUCTS MAY HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE CATCH WITHIN THE STATE.

SUMMARY OF MANUFACTURED PRODUCTS, 1964

(VALUE IN THOUSANDS OF DOLLARS)

ITEM		QUANTITY	VALUE
PACKAGED, FRESH AND FROZEN:			
NOT BREADED:			
FISH	1,000 POUNDS	2,485	1,030
SHELLFISH	DO	93,044	81,887
BREADED, FISH AND SHELLFISH	DO	56,065	37,959
SPECIALTIES, FISH AND SHELLFISH (NOT BREADED AND BREADED)	DO	2,097	1,700
CANNED	1,000 STANDARD CASES	3,314	24,793
CURED	1,000 POUNDS	732	1,031
INDUSTRIAL	-	-	24,833
TOTAL	-	-	173,233

VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1964

(THOUSANDS OF DOLLARS)

STATE	VALUE
FLORIDA, WEST COAST	35,194
ALABAMA	7,434
MISSISSIPPI	20,018
LOUISIANA	55,173
TEXAS	55,414
TOTAL	173,233

WHOLESALING AND MANUFACTURING, 1964

ITEM	FLORIDA, WEST COAST	ALABAMA	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING:						
ESTABLISHMENTS	311	57	58	212	142	780
PERSONS ENGAGED:						
AVERAGE FOR SEASON	3,906	1,135	1,770	5,327	4,786	16,924
AVERAGE FOR YEAR	3,162	650	1,212	3,290	3,490	11,804

GULF FISHERIES

FLORIDA, WEST COAST

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	PURSE SEINES	OTTER TRAWLS		
			CRAB	FISH	SHRIMP
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	100	-	10	9	2,254
ON BOATS AND SHORE:					
REGULAR	247	8	-	-	160
CASUAL.	45	4	-	-	12
TOTAL	392	12	10	9	2,426
VESSELS, MOTOR.	14	-	5	3	901
GROSS TONNAGE	163	-	67	128	42,659
BOATS:					
MOTOR	83	6	-	-	107
OTHER	38	-	-	-	-
GEAR:					
NUMBER.	81	6	5	3	1,805
LENGTH, YARDS	55,600	1,200	-	-	-
YARDS AT MOUTH.	-	-	93	87	27,470

ITEM	POUND NETS, CRAB	POTS AND TRAPS		
		CRAB		LOBSTER, SPINY
		BLUE	OTHER	
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS.	-	6	4	68
ON BOATS AND SHORE:				
REGULAR	2	287	89	238
CASUAL.	-	19	17	104
TOTAL	2	312	110	410
VESSELS, MOTOR.	-	3	2	34
GROSS TONNAGE	-	30	36	358
BOATS, MOTOR.	1	273	78	214
GEAR, NUMBER.	40	48,885	20,974	73,553

ITEM	GILL NETS			TRAMMEL NETS
	ANCHOR, SET OR STAKE	DRIFT	RUNA-ROUND	
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS.	-	18	205	41
ON BOATS AND SHORE:				
REGULAR	6	13	1,169	421
CASUAL.	1	1	149	32
TOTAL	7	32	1,523	494
VESSELS, MOTOR.	-	6	63	13
GROSS TONNAGE	-	61	760	138
BOATS:				
MOTOR	4	8	954	275
OTHER	-	-	96	9
GEAR:				
NUMBER.	4	14	1,113	297
SQUARE YARDS.	2,920	41,100	1,667,618	361,701

ITEM	LINES			
	HAND	TROLL	LONG OR SET WITH HOOKS	TROT WITH BAITS
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS.	1,370	61	-	-
ON BOATS AND SHORE:				
REGULAR	463	282	15	14
CASUAL.	1,125	384	8	-
TOTAL	2,958	727	23	14
VESSELS, MOTOR.	334	31	-	-
GROSS TONNAGE	8,441	350	-	-
BOATS, MOTOR.	1,178	420	22	11
GEAR:				
NUMBER.	2,979	1,299	72	11
HOOKS OR BAITS.	8,448	1,299	3,800	6,600

(CONTINUED ON NEXT PAGE)

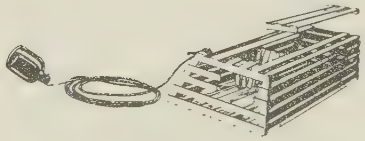
FLORIDA, WEST COAST

OPERATING UNITS BY GEAR, 1964 - Continued

ITEM	DIP NETS		CAST NETS	SPEARS
	COMMON	DROP		
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:				
REGULAR	44	-	7	24
CASUAL	22	29	8	7
TOTAL	66	29	15	31
BOATS, MOTOR	66	29	15	31
GEAR, NUMBER	66	160	15	31

ITEM	DREDGES, SCALLOP	TONGS		RAKES
		OYSTER	OTHER	
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS	2	19	-	-
ON BOATS AND SHORE:				
REGULAR	32	720	8	1
CASUAL	7	48	-	-
TOTAL	41	787	8	1
VESSELS, MOTOR	1	9	-	-
GROSS TONNAGE	12	84	-	-
BOATS:				
MOTOR	23	613	8	1
OTHER	-	1	-	-
GEAR:				
NUMBER	57	787	8	1
YARDS AT MOUTH	58	-	-	-

ITEM	HOOKS, SPONGE	DIVING OUTFITS	BY HAND		TOTAL, EXCLUSIVE OF DUPLICATION
			OYSTER	OTHER	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	42	80	-	-	3,932
ON BOATS AND SHORE:					
REGULAR	57	-	28	38	3,034
CASUAL	15	-	9	46	1,618
TOTAL	114	80	37	84	8,584
VESSELS, MOTOR	7	12	-	-	1,278
GROSS TONNAGE	74	170	-	-	50,070
BOATS:					
MOTOR	15	-	32	46	3,391
OTHER	35	-	2	35	187
GEAR, NUMBER	46	12	-	-	-



SPINY LOBSTER TRAP

FLORIDA, WEST COAST - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		PURSE SEINES		OTTER TRAWLS	
					CRAB	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	205,100	$7,794	-	-	-	-
AMBERJACK.	100	5	-	-	-	-
BALLYHOO	-	-	887,300	$124,660	-	-
BLUEFISH	264,500	26,171	-	-	-	-
BLUE RUNNER.	950,300	21,732	-	-	-	-
CIGARFISH.	499,900	35,896	-	-	-	-
CREVALLE	269,800	6,745	-	-	-	-
CROAKER.	18,900	1,287	-	-	-	-
DRUM:						
BLACK.	12,800	678	-	-	-	-
RED.	145,200	18,732	-	-	-	-
FLOUNDERS.	14,800	3,331	-	-	-	-
GRUNTS	200	14	-	-	-	-
KING MACKEREL.	30,800	2,587	-	-	-	-
KING WHITING OR "KINGFISH" .	13,800	607	-	-	-	-
MENHADEN	1,000	29	-	-	-	-
MOJARRA.	52,400	3,831	-	-	-	-
MULLET:						
BLACK.	8,040,000	442,200	-	-	-	-
SILVER	14,300	871	-	-	-	-
PERMIT	3,600	401	-	-	-	-
PIGFISH.	500	32	-	-	-	-
POMPANO.	24,600	15,276	-	-	-	-
SEA CATFISH.	153,500	9,333	-	-	-	-
SEA TROUT OR WEAKFISH:						
SPOTTED.	327,800	82,608	-	-	-	-
WHITE.	6,300	642	-	-	-	-
SHEEPSHEAD, SALT-WATER . . .	75,000	6,601	-	-	-	-
SNAPPER, MANGROVE.	1,300	234	-	-	-	-
SPANISH MACKEREL	227,900	21,649	-	-	-	-
SPOT	79,200	5,861	-	-	-	-
TENPOUNDER	712,500	15,931	-	-	-	-
TRIPLETAIL	500	25	-	-	-	-
UNCLASSIFIED:						
FOR FOOD	170,100	12,201	-	-	-	-
BAIT, REDUCTION, AND ANIMAL FOOD	77,000	1,964	-	-	-	-
CRABS, BLUE, HARD.	-	-	-	-	74,900	$4,494
TOTAL.	12,393,700	745,268	887,300	124,660	74,900	4,494

SPECIES	OTTER TRAWLS - CONTINUED				POUND NETS, CRAB	
	FISH		SHRIMP			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CROAKER.	-	-	4,600	$313	-	-
FLOUNDERS.	-	-	77,300	17,394	-	-
GROUPERS	17,700	$1,894	-	-	-	-
KING WHITING OR "KINGFISH" .	-	-	191,800	8,441	-	-
SEA CATFISH.	-	-	30,900	1,886	-	-
SNAPPER:						
RED.	76,700	23,623	-	-	-	-
VERMILION.	500	84	-	-	-	-
SPOT	-	-	57,300	4,332	-	-
WARSAW	2,000	156	-	-	-	-
UNCLASSIFIED:						
FOR FOOD	-	-	5,100	372	-	-
BAIT, REDUCTION, AND ANIMAL FOOD	-	-	2,500	65	-	-
CRABS:						
BLUE:						
HARD	-	-	23,300	1,398	-	-
SOFT AND PEELER.	-	-	-	-	11,100	$5,609
LOBSTERS, SPINY.	-	-	11,500	4,899	-	-
SHRIMP	-	-	39,965,800	13,322,273	-	-
SQUID.	-	-	14,700	1,491	-	-
TOTAL.	96,900	25,757	40,384,800	13,362,864	11,100	5,609

(CONTINUED ON NEXT PAGE)

FLORIDA, WEST COAST - CATCH BY GEAR, 1964 - Continued

SPECIES	POTS AND TRAPS					
	CRAB				SPINY LOBSTER	
	BLUE		OTHER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
GROUPERS	-	-	-	-	10,000	$1,071
CRABS:						
BLUE:						
HARD	13.625,800	816,142	-	-	-	-
SOFT AND PEELER	1,900	958	-	-	-	-
STONE	2,300	713	745,900	231,188	3,500	1,085
LOBSTER, SPINY	-	-	-	-	2,804,400	1,194,110
TOTAL	13,630,000	817,813	745,900	231,188	2,817,900	1,196,266

SPECIES	GILL NETS					
	ANCHOR, SET OR STAKE		DRIFT		RUNAROUND*	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	-	-	210,600	$8,049
AMBERJACK	-	-	-	-	100	5
BLUEFISH	-	-	40,500	$4,009	352,700	34,920
BLUE RUNNER	-	-	2,500	58	184,400	4,242
CABIO	-	-	-	-	400	24
CREVALLE	-	-	500	12	181,300	4,533
CROAKER	-	-	-	-	27,600	1,855
DRUM:						
BLACK	-	-	-	-	40,000	1,999
RED	-	-	-	-	423,200	54,787
FLOUNDERS	-	-	-	-	33,600	7,562
GRUNTS	-	-	-	-	200	14
KING MACKEREL	-	-	25,000	2,100	1,031,900	86,412
KING WHITING OR "KINGFISH"	-	-	-	-	17,900	786
MENHADEN	-	-	-	-	74,500	2,154
MOJARRA	-	-	-	-	42,300	3,130
MULLET:						
BLACK	-	-	-	-	24,980,300	1,377,417
SILVER	-	-	-	-	522,500	31,756
PERMIT	-	-	-	-	4,800	533
PIGFISH	-	-	-	-	5,800	359
POMPANO	-	-	2,000	1,241	54,600	33,904
SEA CATFISH	-	-	-	-	40,200	2,451
SEA TROUT OR WEAKFISH:						
SPOTTED	-	-	4,500	1,134	1,685,900	425,246
WHITE	-	-	-	-	22,300	2,295
SHARKS	-	-	-	-	700	52
SHEEPSHEAD, SALT-WATER	-	-	-	-	91,400	7,989
SNAPPER, MANGROVE	-	-	-	-	12,500	2,239
SPANISH MACKEREL	-	-	42,000	3,990	3,425,800	326,592
SPOT	-	-	-	-	156,100	11,551
STURGEON	8,100	$1,645	800	163	-	-
TENPOUNDER	-	-	-	-	122,500	2,695
TRIPLETAIL	-	-	-	-	200	10
UNCLASSIFIED:						
FOR FOOD	-	-	2,000	126	553,700	39,913
BAIT, REDUCTION, AND ANIMAL FOOD	-	-	-	-	161,700	4,139
TURTLES:						
GREEN	27,500	3,971	-	-	2,100	303
LOGGERHEAD	-	-	-	-	1,100	112
TOTAL	35,600	5,616	119,800	12,833	34,464,900	2,480,028

SPECIES	TRAMMEL NETS		LINES			
			HAND		TROLL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	17,600	$669	-	-	-	-
AMBERJACK	-	-	9,600	$439	-	-
BARRACUDA	-	-	1,200	58	600	$30
BLUEFISH	75,400	7,467	36,000	3,564	9,700	963
BLUE RUNNER	45,500	1,048	26,400	608	1,200	28
CABIO	-	-	10,100	595	-	-
CIGARFISH	1,900	137	-	-	-	-
CREVALLE	11,400	284	70,200	1,702	3,500	90
CROAKER	12,300	836	1,100	76	-	-
DOLPHIN	-	-	300	22	21,700	1,554
DRUM:						
BLACK	20,300	1,075	14,800	749	500	27
RED	38,800	5,004	92,000	11,869	-	-

(CONTINUED ON NEXT PAGE)

FLORIDA, WEST COAST - CATCH BY GEAR, 1964 - Continued

SPECIES	TRAMMEL NETS		LINES			
			HAND		TROLL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS	16,300	$3,669	5,600	$1,260	-	-
GROUPERS	-	-	7,634,500	819,942	-	-
GRUNTS	-	-	37,000	2,510	-	-
HOGFISH	-	-	21,500	3,372	-	-
JEWFISH	-	-	86,200	7,537	-	-
KING MACKEREL	-	-	28,300	2,374	197,900	$16,624
KING WHITING OR "KINGFISH"	6,200	271	2,400	104	-	-
MENHADEN	8,500	247	-	-	-	-
MOJARRA	500	37	9,900	732	-	-
MULLET:						
BLACK	1,963,200	107,975	-	-	-	-
SILVER	7,200	440	-	-	-	-
PERMIT	-	-	9,200	1,006	-	-
PIGFISH	4,700	301	2,400	153	-	-
POMPANO	541,000	335,555	2,700	1,676	-	-
SCUP OR PORGY	-	-	53,600	4,914	-	-
SEA CATFISH	8,800	536	3,200	193	-	-
SEA TROUT OR WEAKFISH:						
SPOTTED	392,100	98,809	349,000	87,947	39,900	10,053
WHITE	5,700	579	7,600	774	1,000	102
SHEEPSHEAD, SALT-WATER	8,300	731	38,900	3,424	-	-
SNAPPER:						
MANGROVE	-	-	311,100	55,657	-	-
MUTTON	-	-	134,300	30,017	-	-
RED	-	-	6,455,500	1,985,705	-	-
VERMILION	-	-	89,000	15,020	-	-
YELLOWTAIL	-	-	896,500	219,739	-	-
SPANISH MACKEREL	26,000	2,470	68,900	6,547	89,000	8,457
SPOT	42,800	3,166	17,400	1,288	-	-
TENPOUNDER	1,900	42	4,600	100	-	-
TILEFISH	-	-	400	39	-	-
TRIGGERFISH	-	-	24,000	828	-	-
TRIPLETAIL	300	14	-	-	-	-
WARSAW	-	-	156,600	12,205	-	-
UNCLASSIFIED:						
FOR FOOD	13,200	957	188,700	13,768	-	-
BAIT, REDUCTION, AND ANIMAL FOOD	6,100	158	600	16	-	-
TOTAL	3,276,000	572,477	16,901,300	3,298,529	365,000	37,928

SPECIES	LINES - CONTINUED				DIP NETS			
	LONG OR SET WITH HOOKS		TROT WITH BAITS		COMMON		DROP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH AND BULLHEADS	81,000	$14,737	-	-	-	-	-	-
CRABS, BLUE, HARD	-	-	344,500	$20,670	-	-	-	-
LOBSTERS, SPINY	-	-	-	-	14,500	$6,177	15,000	$6,390
TOTAL	81,000	14,737	344,500	20,670	14,500	6,177	15,000	6,390

SPECIES	CAST NETS		SPEARS		DREDGES, SCALLOP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS	-	-	56,800	$12,808	-	-
MULLET:						
BLACK	12,100	$666	-	-	-	-
SILVER	1,000	61	-	-	-	-
SEA TROUT OR WEAKFISH, SPOTTED	100	25	-	-	-	-
UNCLASSIFIED:						
FOR FOOD	200	15	-	-	-	-
BAIT, REDUCTION, AND ANIMAL FOOD	200	5	-	-	-	-
SCALLOPS, BAY	-	-	-	-	18,200	$13,602
TOTAL	13,600	772	56,800	12,808	18,200	13,602

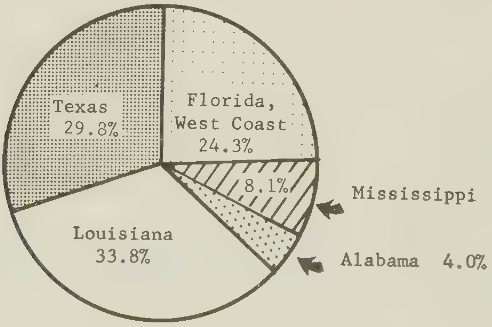
(CONTINUED ON NEXT PAGE)

FLORIDA, WEST COAST - CATCH BY GEAR, 1964 - Continued

SPECIES	TONGS				RAKES		HOOKS, SPONGE	
	OYSTER		OTHER					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS, HARD, PUBLIC.	-	-	13,500	$4,495	4,300	$1,432	-	-
OYSTERS, MARKET:								
PUBLIC:								
SPRING	1,464,600	$409,274	-	-	-	-	-	-
FALL	1,173,100	328,468	-	-	-	-	-	-
PRIVATE:								
SPRING	70,700	19,796	-	-	-	-	-	-
FALL	59,300	16,604	-	-	-	-	-	-
SPONGES:								
GRASS.	-	-	-	-	-	-	2,000	$2,694
SHEEPSWOOL	-	-	-	-	-	-	11,000	75,211
YELLOW	-	-	-	-	-	-	6,300	10,093
TOTAL.	2,767,700	774,142	13,500	4,495	4,300	1,432	19,300	87,998

SPECIES	DIVING OUTFITS, SPONGE		BY HAND			
			OYSTER		OTHER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS, HARD, PUBLIC.	-	-	-	-	53,900	$17,955
CONCHS	-	-	-	-	1,800	536
OYSTERS, MARKET, PUBLIC:						
SPRING	-	-	12,900	$3,612	-	-
FALL	-	-	12,100	3,388	-	-
SCALLOPS, BAY.	-	-	-	-	200	150
SPONGES:						
SHEEPSWOOL	23,900	$272,525	-	-	-	-
YELLOW	400	2,061	-	-	-	-
TOTAL.	24,300	274,586	25,000	7,000	55,900	18,641

VALUE OF GULF STATES CATCH, 1964



TOTAL $99,298,000

GULF FISHERIES

ALABAMA

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS, SHRIMP	FYKE AND HOOP NETS, FISH	POTS AND TRAPS	
				CRAB, BLUE	FISH
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	-	582	-	-	-
ON BOATS AND SHORE:					
REGULAR	18	380	9	66	4
CASUAL.	-	27	5	-	6
TOTAL	18	989	14	66	10
VESSELS, MOTOR.	-	230	-	-	-
GROSS TONNAGE	-	8,225	-	-	-
BOATS:					
MOTOR	5	231	14	60	10
OTHER	5	-	-	-	-
GEAR:					
NUMBER.	5	617	420	6,400	196
LENGTH, YARDS	1,500	-	-	-	-
YARDS AT MOUTH.	-	9,482	-	-	-

ITEM	GILL NETS, RUNA-ROUND	TRAMMEL NETS	LINES		
			HAND	LONG OR SET WITH HOOKS	TROT WITH BAITS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	-	-	193	-	-
ON BOATS AND SHORE:					
REGULAR	8	104	8	4	16
CASUAL.	2	-	24	-	2
TOTAL	10	104	225	4	18
VESSELS, MOTOR.	-	-	22	-	-
GROSS TONNAGE	-	-	1,151	-	-
BOATS:					
MOTOR	8	56	32	4	18
OTHER	2	48	-	-	-
GEAR:					
NUMBER.	10	104	205	4	18
SQUARE YARDS.	5,600	104,000	-	-	-
HOOKS OR BAITS.	-	-	1,068	1,200	8,100

ITEM	SPEARS	DREDGES, OYSTER, COMMON	TONGS, OYSTER	TOTAL, EX-CLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS	-	-	-	773
ON BOATS AND SHORE:				
REGULAR	24	11	513	742
CASUAL.	12	2	168	218
TOTAL	36	13	681	1,733
VESSELS, MOTOR.	-	-	-	251
GROSS TONNAGE	-	-	-	9,356
BOATS:				
MOTOR	36	3	356	564
OTHER	-	-	60	113
GEAR:				
NUMBER.	36	6	666	-
YARDS AT MOUTH.	-	6	-	-

ALABAMA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		OTTER TRAWLS, SHRIMP		FYKE AND HOOP NETS, FISH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	6,600	$353	100	$3	-	-
BLUE RUNNER	300	10	-	-	-	-
BUFFALOFISH	-	-	-	-	63,500	$6,725
CABIO	-	-	100	4	-	-
CATFISH AND BULLHEADS	-	-	-	-	3,000	750
CROAKER	200	22	500	37	-	-
DRUM:						
BLACK	3,100	237	1,500	99	-	-
RED	4,300	644	1,400	198	-	-
FLOUNDERS	-	-	142,200	18,917	-	-
GROUPERS	-	-	600	62	-	-
JEWFISH	-	-	300	27	-	-
KING WHITING OR "KINGFISH"	-	-	561,600	28,225	-	-
MULLET, BLACK	15,500	773	1,400	88	-	-
PADDLEFISH	-	-	-	-	10,000	1,270
POMPANO	400	277	200	134	-	-
SEA CATFISH	-	-	10,600	558	-	-
SEA TROUT OR WEAKFISH:						
SPOTTED	10,700	2,677	400	98	-	-
WHITE	-	-	65,000	3,257	-	-
SHEEPSHEAD:						
FRESH-WATER	-	-	-	-	14,000	2,107
SALT-WATER	2,400	167	21,400	1,445	-	-
SNAPPER, RED	-	-	18,700	2,623	-	-
SPANISH MACKEREL	60,900	7,041	200	19	-	-
SPOT	600	18	400	16	-	-
STURGEON	-	-	-	-	100	20
CRABS, BLUE, HARD	-	-	117,900	6,409	-	-
SHRIMP	-	-	7,214,700	2,629,814	-	-
SQUID	-	-	4,200	350	-	-
TOTAL	105,000	12,219	8,163,400	2,692,383	90,600	10,872

SPECIES	POTS AND TRAPS				GILL NETS, RUNAROUND	
	CRAB, BLUE		FISH			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	-	-	-	-	3,200	$240
BUFFALOFISH	-	-	4,200	$212	-	-
CATFISH AND BULLHEADS	-	-	36,700	9,262	-	-
SHEEPSHEAD, FRESH-WATER	-	-	1,400	212	-	-
SPANISH MACKEREL	-	-	-	-	11,300	1,141
CRABS, BLUE, HARD	1,584,800	$100,121	-	-	-	-
TOTAL	1,584,800	100,121	42,300	9,686	14,500	1,381

SPECIES	TRAMMEL NETS		LINES			
			HAND		LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	1,100	$95	-	-	-	-
CATFISH AND BULLHEADS	-	-	-	-	5,600	$1,409
CROAKER	2,500	212	-	-	-	-
DRUM:						
BLACK	12,700	1,093	-	-	-	-
RED	13,500	2,191	100	$8	-	-
FLOUNDERS	100	29	-	-	-	-
GROUPERS	-	-	303,900	43,462	-	-
JEWFISH	-	-	118,100	11,720	-	-
KING WHITING OR "KINGFISH"	13,200	667	-	-	-	-
MULLET, BLACK	1,055,100	54,759	-	-	-	-
POMPANO	300	180	700	398	-	-
SEA CATFISH	2,200	126	-	-	-	-
SEA TROUT OR WEAKFISH:						
SPOTTED	43,000	10,985	10,500	2,712	-	-
WHITE	100	7	-	-	-	-
SHEEPSHEAD, SALT-WATER	10,900	762	-	-	-	-
SNAPPER, RED	-	-	2,374,200	682,510	-	-
SPANISH MACKEREL	900	85	800	72	-	-
SPOT	12,700	667	-	-	-	-
TOTAL	1,168,300	71,858	2,808,300	740,882	5,600	1,409

SPECIES	LINES - CONTINUED		SPEARS		DREDGES, OYSTER, COMMON		TONGS, OYSTER	
	TROT WITH BAITS							
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS	-	-	19,800	$5,890	-	-	-	-
CRABS, BLUE, HARD	59,000	$3,805	-	-	-	-	-	-
OYSTERS, MARKET:								
PUBLIC:								
SPRING	-	-	-	-	-	-	745,200	$223,410
FALL	-	-	-	-	-	-	185,500	73,744
PRIVATE:								
SPRING	-	-	-	-	36,800	$12,570	15,500	5,885
FALL	-	-	-	-	12,700	4,670	9,600	3,846
TOTAL	59,000	3,805	19,800	5,890	49,500	17,240	955,800	306,885

GULF FISHERIES

MISSISSIPPI

OPERATING UNITS BY GEAR, 1964

ITEM	PURSE SEINES, MENHADEN	OTTER TRAWLS		POTS AND TRAPS, CRAB, BLUE
		FISH	SHRIMP	
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS	372	197	1,000	-
ON BOATS AND SHORE:				
REGULAR.	-	-	232	26
CASUAL	-	-	205	3
TOTAL.	372	197	1,437	29
VESSELS, MOTOR	21	82	405	-
GROSS TONNAGE.	6,048	2,982	14,405	-
BOATS, MOTOR	42	-	360	25
GEAR:				
NUMBER	21	109	1,003	2,930
LENGTH, YARDS.	10,590	-	-	-
YARDS AT MOUTH	-	1,995	14,044	-

ITEM	TRAMMEL NETS	LINES		CAST NETS
		HAND	TROT WITH BAITS	
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS	24	126	-	-
ON BOATS AND SHORE:				
REGULAR.	27	-	8	-
CASUAL	6	70	3	6
TOTAL.	57	196	11	6
VESSELS, MOTOR	8	14	-	-
GROSS TONNAGE.	103	597	-	-
BOATS:				
MOTOR.	34	65	11	-
OTHER.	16	-	-	-
GEAR:				
NUMBER	34	184	11	6
SQUARE YARDS	26,800	-	-	-
HOOKS OR BAITS	-	982	5,500	-

ITEM	SPEARS	DREDGES, OYSTER, COMMON	TONGS, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS	-	626	-	2,039
ON BOATS AND SHORE:				
REGULAR.	-	50	425	628
CASUAL	20	30	130	401
TOTAL.	20	706	555	3,068
VESSELS, MOTOR	-	192	-	585
GROSS TONNAGE.	-	4,303	-	24,777
BOATS:				
MOTOR.	-	40	446	899
OTHER.	-	-	104	120
GEAR:				
NUMBER	20	464	550	-
YARDS AT MOUTH	-	560	-	-

MISSISSIPPI - CATCH BY GEAR, 1964

SPECIES	PURSE SEINES, MENHADEN		OTTER TRAWLS			
			FISH		SHRIMP	
	POUNDS	VALUE	POUNDS	VALUF	POUNDS	VALUE
DRUM:						
BLACK	-	-	800	$47	2,700	$162
RED	-	-	2,300	188	500	50
FLOUNDERS	-	-	27,000	3,527	30,000	4,222
GROUPERS	-	-	-	-	1,200	112
KING WHITING OR "KINGFISH"	-	-	157,200	8,575	165,300	11,196
MENHADEN	237,832,600	$3,131,440	-	-	-	-
SEA CATFISH	-	-	9,200	459	6,800	345
SEA TROUT OR WEAKFISH, WHITE	-	-	6,400	366	16,800	862
SHEEPSHEAD, SALT-WATER	-	-	4,700	295	7,800	616
SNAPPER, RED	-	-	200	30	10,100	1,119
SPANISH MACKEREL	-	-	-	-	100	8
SPOT	-	-	-	-	600	36
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	78,425,200	1,348,925	-	-
SHRIMP	-	-	-	-	6,416,000	1,804,829
TOTAL	237,832,600	3,131,440	78,633,000	1,362,412	6,657,900	1,823,557

SPECIES	POTS AND TRAPS, CRAB		TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH	-	-	14,600	$1,463
CROAKER	-	-	500	30
DRUM:				
BLACK	-	-	42,200	2,851
RED	-	-	46,400	6,820
KING WHITING OR "KINGFISH"	-	-	500	31
MULLET, BLACK	-	-	247,500	12,291
POMPANO	-	-	200	100
SEA CATFISH	-	-	600	32
SEA TROUT OR WEAKFISH:				
SPOTTED	-	-	146,000	30,014
WHITE	-	-	2,900	171
SHEEPSHEAD, SALT-WATER	-	-	36,400	2,910
SPANISH MACKEREL	-	-	100	12
SPOT	-	-	6,600	504
CRABS, BLUE:				
HARD	1,107,700	$72,093	-	-
SOFT AND PEELER	1,200	182	-	-
TOTAL	1,108,900	72,275	544,500	57,229

SPECIES	LINES				CAST NETS	
	HAND		TROT WITH BAITS			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CABIO	900	$71	-	-	-	-
DRUM, RED	900	129	-	-	-	-
GROUPERS	267,200	29,190	-	-	-	-
MULLET, BLACK	-	-	-	-	2,000	$100
SEA TROUT OR WEAKFISH, SPOTTED	2,100	508	-	-	-	-
SHEEPSHEAD, SALT-WATER	400	26	-	-	-	-
SNAPPER, RED	1,838,900	459,723	-	-	-	-
SPANISH MACKEREL	500	42	-	-	-	-
CRABS, BLUE:						
HARD	-	-	178,300	$9,517	-	-
SOFT AND PEELER	-	-	500	70	-	-
TOTAL	2,110,900	489,689	178,800	9,587	2,000	100

SPECIES	SPEARS		DREDGES, OYSTER, COMMON		TONGS, OYSTER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS	300	$61	-	-	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING	-	-	2,293,800	$414,498	788,900	$204,530
FALL	-	-	533,100	191,131	87,700	30,529
PRIVATE:						
SPRING	-	-	868,600	164,632	-	-
FALL	-	-	256,500	93,416	-	-
TOTAL	300	61	3,952,000	863,677	876,600	235,059

GULF FISHERIES

LOUISIANA

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	PURSE SEINES, MENHADEN	OTTER TRAWLS		FYKE AND HOOP NETS, FISH
			FISH	SHRIMP	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	-	900	17	3,503	-
ON BOATS AND SHORE:					
REGULAR	28	-	-	2,974	207
CASUAL.	12	-	-	1,118	129
TOTAL	40	900	17	7,595	336
VESSELS, MOTOR.	-	50	7	1,343	-
GROSS TONNAGE	-	13,044	285	53,617	-
BOATS:					
MOTOR	18	100	-	2,967	330
OTHER	11	-	-	-	-
GEAR:					
NUMBER.	12	50	11	5,286	11,109
LENGTH, YARDS	3,867	21,730	-	-	-
YARDS AT MOUTH.	-	-	186	75,010	-

ITEM	POTS AND TRAPS			GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS
	CRABS, BLUE	CRAWFISH	FISH		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	-	-	-	4	6
ON BOATS AND SHORE:					
REGULAR	25	82	36	113	162
CASUAL.	9	55	-	66	23
TOTAL	34	137	36	183	191
VESSELS, MOTOR.	-	-	-	1	2
GROSS TONNAGE	-	-	-	12	37
BOATS:					
MOTOR	34	133	36	173	119
OTHER	-	-	-	-	22
GEAR:					
NUMBER.	3,250	8,980	464	197	113
SQUARE YARDS.	-	-	-	63,974	39,501

ITEM	LINES			DIP NETS	
	HAND	LONG OR SET WITH HOOKS	TROT WITH BAITS	COMMON	DROP
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	117	-	-	-	-
ON BOATS AND SHORE:					
REGULAR	26	748	590	28	388
CASUAL.	93	369	104	9	32
TOTAL	236	1,117	694	37	420
VESSELS, MOTOR.	23	-	-	-	-
GROSS TONNAGE	1,140	-	-	-	-
BOATS:					
MOTOR	89	1,117	693	37	317
OTHER	-	-	-	-	17
GEAR:					
NUMBER.	680	1,613	750	37	29,032
HOOKS OR BAITS.	1,198	602,352	427,000	-	-

ITEM	DREDGES, OYSTER, COMMON	TONGS, OYSTER	BRUSH TRAPS	GRABS, FROG	BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	639	-	-	-	-	5,072
ON BOATS AND SHORE:						
REGULAR	317	462	65	31	60	3,752
CASUAL.	51	31	-	15	-	1,583
TOTAL	1,007	493	65	46	60	10,407
VESSELS, MOTOR.	224	-	-	-	-	1,602
GROSS TONNAGE	4,106	-	-	-	-	70,825
BOATS:						
MOTOR	199	276	65	34	30	4,289
OTHER	-	62	-	6	10	128
GEAR:						
NUMBER.	772	493	28,275	46	-	-
YARDS AT MOUTH.	880	-	-	-	-	-

LOUISIANA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		PURSE SEINES, MENHADEN	
	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	600	$20	-	-
BUFFALOFISH	55,900	5,939	-	-
CARP	400	12	-	-
CATFISH AND BULLHEADS	10,200	2,540	-	-
CROAKER	3,100	155	-	-
DRUM:				
BLACK	39,800	2,449	-	-
RED	38,400	6,081	-	-
FLOUNDERS	2,300	414	-	-
GARFISH	64,700	2,599	-	-
KING WHITING OR "KINGFISH"	4,300	301	-	-
MENHADEN	-	-	599,537,500	$9,045,557
MULLET, BLACK	14,400	720	-	-
SEA CATFISH	1,200	120	-	-
SEA TROUT OR WEAKFISH:				
SPOTTED	27,500	6,875	-	-
WHITE	5,900	563	-	-
SHARKS, UNCLASSIFIED	500	25	-	-
SHEEPSHEAD:				
FRESH-WATER	3,400	330	-	-
SALT-WATER	16,200	1,524	-	-
SPOT	500	50	-	-
TOTAL	289,300	30,717	599,537,500	9,045,557

SPECIES	OTTER TRAWLS				FYKE AND HOOP NETS, FISH	
	FISH		SHRIMP			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	-	-	-	-	2,100	$64
BUFFALOFISH	-	-	-	-	283,200	31,141
CABIO	-	-	100	$20	-	-
CARP	-	-	-	-	15,000	779
CATFISH AND BULLHEADS	-	-	-	-	1,155,500	273,034
CROAKER	-	-	4,800	240	-	-
DRUM:						
BLACK	-	-	29,900	2,392	-	-
RED	-	-	18,100	2,715	-	-
FLOUNDERS	-	-	177,900	22,566	-	-
GARFISH	-	-	-	-	800	35
GROUPER	-	-	3,900	345	-	-
JEWFISH	-	-	2,200	53	-	-
KING WHITING OR "KINGFISH"	-	-	452,900	25,239	-	-
MULLET, BLACK	-	-	1,500	75	-	-
POMPANO	-	-	2,900	1,200	-	-
SAWFISH	-	-	3,100	155	-	-
SEA CATFISH	-	-	46,900	2,404	-	-
SEA TROUT OR WEAKFISH:						
SPOTTED	-	-	3,300	660	-	-
WHITE	-	-	36,100	1,840	-	-
SHARKS, UNCLASSIFIED	-	-	2,200	100	-	-
SHEEPSHEAD:						
FRESH-WATER	-	-	-	-	121,300	12,149
SALT-WATER	-	-	34,000	2,522	-	-
SNAPPER, RED	-	-	63,900	12,166	-	-
SPANISH MACKEREL	-	-	700	95	-	-
SPOT	-	-	5,000	250	-	-
TRIPLETAIL	-	-	2,600	181	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	8,166,000	$101,607	-	-	300	10
CRABS, BLUE, HARD	-	-	648,900	36,795	-	-
SHRIMP	-	-	59,365,000	18,789,964	-	-
SQUID	-	-	3,600	491	-	-
TERRAPIN	-	-	5,600	1,120	-	-
TURTLES:						
GREEN	-	-	3,000	420	-	-
SNAPPER	-	-	-	-	3,100	850
TOTAL	8,166,000	101,607	60,918,100	18,904,008	1,581,300	318,062

(CONTINUED ON NEXT PAGE)

LOUISIANA - CATCH BY GEAR, 1964 - Continued

SPECIES	POTS AND TRAPS					
	CRAB, BLUE		CRAWFISH		FISH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH AND BULLHEADS	-	-	-	-	355,100	$79,133
CRABS, BLUE:						
HARD.	296,800	$23,744	-	-	-	-
SOFT AND PEELER	23,400	14,040	-	-	-	-
CRAWFISH, FRESH-WATER	-	-	1,062,900	$190,740	-	-
TOTAL	320,200	37,784	1,062,900	190,740	355,100	79,133

SPECIES	GILL NETS, ANCHOR, SET OR STAKE		TRAMMEL NETS		LINES			
					HAND		LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	446,500	$48,302	58,600	$6,450	-	-	1,200	$120
CABIO	-	-	-	-	200	$10	-	-
CARP.	6,500	430	-	-	-	-	-	-
CATFISH AND BULLHEADS	416,400	96,791	45,300	11,207	-	-	4,087,100	961,888
CROAKER	-	-	12,400	620	200	10	-	-
DRUM:								
BLACK	1,000	80	234,400	17,786	700	35	700	56
RED	5,600	921	242,600	39,222	3,800	684	3,200	576
FLOUNDERS	-	-	9,700	1,650	-	-	200	40
GARFISH	905,200	44,145	49,400	2,464	8,400	421	16,300	735
GROUPER	-	-	-	-	8,800	568	-	-
KING WHITING OR "KINGFISH". .	-	-	14,800	1,036	-	-	-	-
MULLET, BLACK	-	-	6,300	292	-	-	-	-
PADDLEFISH.	500	50	400	20	-	-	400	40
POMPANO	-	-	-	-	6,400	4,800	-	-
SAWFISH	-	-	500	25	-	-	-	-
SEA CATFISH	-	-	4,300	260	-	-	7,800	401
SEA TROUT OR WEAKFISH:								
SPOTTED	5,700	1,140	246,500	57,680	7,300	1,725	200	50
WHITE	-	-	24,000	2,657	100	5	-	-
SHEEPSHEAD:								
FRESH-WATER	16,400	1,640	3,000	303	-	-	14,600	1,458
SALT-WATER.	-	-	86,100	7,087	2,000	101	-	-
SNAPPER, RED.	-	-	-	-	246,000	66,079	-	-
SPANISH MACKEREL.	-	-	-	-	800	96	-	-
WARSAW.	-	-	-	-	4,300	427	-	-
TURTLES, SNAPPER.	-	-	-	-	3,800	767	3,100	558
TOTAL	1,803,800	193,499	1,038,300	148,759	292,800	75,728	4,134,800	965,922

SPECIES	LINES - CONTINUED		DIP NETS				DREDGES, OYSTER, COMMON	
	TROT WITH BAITS		COMMON		DROP			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRABS, BLUE:								
HARD.	3,368,300	$211,165	-	-	1,377,700	$107,510	-	-
SOFT AND PEELER	40,400	26,260	-	-	112,000	70,975	-	-
CRAWFISH, FRESH-WATER	-	-	-	-	276,900	47,535	-	-
OYSTER, MARKET:								
PUBLIC:								
SPRING.	-	-	-	-	-	-	912,400	$156,902
FALL.	-	-	-	-	-	-	93,900	39,438
PRIVATE:								
SPRING.	-	-	-	-	-	-	7,650,300	1,678,484
FALL.	-	-	-	-	-	-	2,108,900	890,704
TURTLES, BABY	-	-	7,100	$28,400	-	-	-	-
FROGS	-	-	4,100	1,640	-	-	-	-
TOTAL	3,408,700	237,425	11,200	30,040	1,766,600	226,020	10,765,500	2,765,528

SPECIES	TONGS, OYSTER		BRUSH TRAPS		CRABS, FROG		BY HAND, OYSTER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRABS, BLUE, SOFT AND PEELER.	-	-	24,100	$15,665	-	-	-	-
SHRIMP.	-	-	16,900	3,398	-	-	-	-
OYSTERS, MARKET:								
PUBLIC:								
SPRING.	281,300	$87,203	-	-	-	-	-	-
FALL.	37,900	13,455	-	-	-	-	-	-
PRIVATE:								
SPRING.	143,400	36,452	-	-	-	-	15,000	$4,915
FALL.	147,000	63,484	-	-	-	-	11,000	5,115
FROGS	-	-	-	-	11,200	$4,376	-	-
TOTAL	609,600	200,594	41,000	19,063	11,200	4,376	26,000	10,030

(CONTINUED ON NEXT PAGE)

TEXAS

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	PURSE SEINES, MENHADEN	OTTER TRAWLS, SHRIMP	FYKE AND HOOP NETS, FISH	POTS AND TRAPS, CRAB, BLUE
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	-	162	3,749	-	-
ON BOATS AND SHORE:					
REGULAR	33	-	705	1	72
CASUAL.	23	-	292	-	4
TOTAL	56	162	4,746	1	76
VESSELS, MOTOR.	-	8	1,387	-	-
GROSS TONNAGE	-	1,329	70,572	-	-
BOATS:					
MOTOR	16	16	695	1	63
OTHER	-	8	-	-	-
GEAR:					
NUMBER.	16	8	3,304	10	8,680
LENGTH, YARDS	4,600	4,000	-	-	-
YARDS AT MOUTH.	-	-	47,858	-	-

ITEM	GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS	LINES		
			HAND	LONG OR SET WITH HOOKS	TROT WITH BAITS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	-	-	496	-	-
ON BOATS AND SHORE:					
REGULAR	61	133	8	123	10
CASUAL.	6	5	265	26	1
TOTAL	67	138	769	149	11
VESSELS, MOTOR.	-	-	93	-	-
GROSS TONNAGE	-	-	4,138	-	-
BOATS:					
MOTOR	53	82	194	137	6
OTHER	12	21	-	-	-
GEAR:					
NUMBER.	55	86	746	141	6
SQUARE YARDS.	36,600	52,372	-	-	-
HOOKS OR BAITS.	-	-	4,740	167,300	2,000

ITEM	SPEARS	DREDGES, OYSTER, COMMON	TONGS, OYSTER	BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	-	363	-	-	4,469
ON BOATS AND SHORE:					
REGULAR	88	314	25	24	911
CASUAL.	93	-	7	10	617
TOTAL	181	677	32	34	5,997
VESSELS, MOTOR.	-	122	-	-	1,479
GROSS TONNAGE	-	1,852	-	-	74,402
BOATS:					
MOTOR	64	153	26	34	1,056
OTHER	-	-	6	-	47
GEAR:					
NUMBER.	181	275	32	-	-
YARDS AT MOUTH.	-	275	-	-	-

TEXAS - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		PURSE SEINES, MENHADEN		OTTER TRAWLS, SHRIMP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
DRUM:						
BLACK	23,600	$2,229	-	-	25,000	$1,383
RED	11,000	2,769	-	-	1,600	320
FLOUNDERS	-	-	-	-	179,400	42,560
GROUPERS	-	-	-	-	4,800	384
JEWFISH	-	-	-	-	500	40
KING WHITING OR "KINGFISH"	5,000	250	-	-	247,600	11,233
MENHADEN	-	-	66,686,400	$822,024	-	-
MULLET, BLACK	-	-	-	-	5,000	150
POMPANO	1,000	400	-	-	-	-
SEA CATFISH	1,400	98	-	-	16,600	1,342
SEA TROUT OR WEAKFISH, SPOTTED	78,500	21,358	-	-	100	25
SHEEPSHEAD, SALT-WATER	15,000	1,800	-	-	114,300	13,328
SNAPPER, RED	-	-	-	-	116,300	26,558
WARSAW	-	-	-	-	6,500	520
UNCLASSIFIED:						
FOR FOOD	-	-	-	-	129,300	8,361
BAIT, REDUCTION, AND ANIMAL FOOD	5,600	168	-	-	3,200	154
CRABS, BLUE, HARD	-	-	-	-	174,000	12,444
SHRIMP	-	-	-	-	66,053,100	26,144,111
SQUID	-	-	-	-	23,500	2,350
TOTAL	141,100	29,072	66,686,400	822,024	67,100,800	26,265,263

SPECIES	FYKE AND HOOP NETS, FISH		POTS AND TRAPS, CRAB, BLUE		GILL NETS, ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	8,000	$1,200	-	-	34,100	$5,115
CARP	-	-	-	-	3,000	300
CATFISH AND BULLHEADS	-	-	-	-	3,100	960
DRUM:						
BLACK	-	-	-	-	302,900	24,306
RED	-	-	-	-	3,300	825
FLOUNDERS	-	-	-	-	41,500	11,620
GARFISH	11,000	440	-	-	50,400	2,215
SEA CATFISH	-	-	-	-	3,600	324
SEA TROUT OR WEAKFISH, SPOTTED	-	-	-	-	62,500	15,625
SHEEPSHEAD, SALT-WATER	-	-	-	-	300	30
CRABS, BLUE:						
HARD	-	-	2,228,400	$157,261	-	-
SOFT AND PEELER	-	-	500	75	-	-
TOTAL	19,000	1,640	2,228,900	157,336	504,700	61,320

SPECIES	TRAMMEL NETS		LINES			
			HAND		LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CABIO	-	-	13,800	$1,103	-	-
CATFISH AND BULLHEADS	-	-	-	-	23,500	$7,750
CROAKER	-	-	100	6	900	56
DRUM:						
BLACK	419,100	$40,643	31,700	2,619	607,000	53,328
RED	134,200	33,659	24,200	6,070	272,600	68,150
FLOUNDERS	2,900	785	5,500	1,450	10,400	2,660
GARFISH	-	-	-	-	2,500	100
GROUPERS	-	-	186,700	18,666	-	-
JEWFISH	-	-	2,200	176	-	-
MULLET, BLACK	200	6	-	-	-	-
POMPANO	600	240	3,500	1,110	800	320
SEA CATFISH	14,800	1,267	1,300	107	3,100	265
SEA TROUT OR WEAKFISH, SPOTTED	378,900	100,039	65,500	16,584	392,200	98,050
SHEEPSHEAD:						
FRESH-WATER	-	-	-	-	600	60
SALT-WATER	51,600	5,560	20,800	2,046	41,800	4,180
SNAPPER, RED	-	-	2,133,500	604,642	-	-
WARSAW	-	-	23,900	2,372	-	-

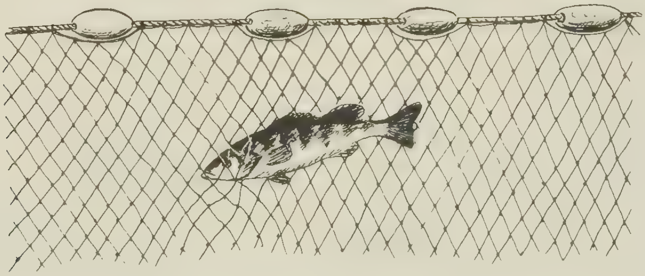
(CONTINUED ON NEXT PAGE)

TEXAS - CATCH BY GEAR, 1964 - Continued

SPECIES	TRAMMEL NETS		LINES			
			HAND		LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
UNCLASSIFIED:						
FOR FOOD.	2,900	$260	-	-	1,300	$78
BAIT, REDUCTION, AND ANIMAL FOOD.	9,000	481	1,000	$50	-	-
TOTAL	1,014,200	182,940	2,513,700	657,001	1,356,700	234,997

SPECIES	LINES - CONTINUED		SPEARS		DREDGES, OYSTER, COMMON	
	TROT WITH BAITS					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS	-	-	65,900	$18,302	-	-
CRABS, BLUE, HARD	81,900	$5,772	-	-	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING.	-	-	-	-	1,847,500	$579,858
FALL.	-	-	-	-	1,327,300	441,539
PRIVATE:						
SPRING.	-	-	-	-	66,300	27,635
FALL.	-	-	-	-	24,600	10,298
TOTAL	81,900	5,772	65,900	18,302	3,265,700	1,059,330

SPECIES	TONGS, OYSTER		BY HAND, OYSTER	
	POUNDS	VALUE	POUNDS	VALUE
OYSTERS, MARKET, PUBLIC:				
SPRING.	27,600	$9,225	25,800	$9,408
FALL.	20,100	7,602	17,900	7,017
TOTAL	47,700	16,827	43,700	16,425



GILL NET

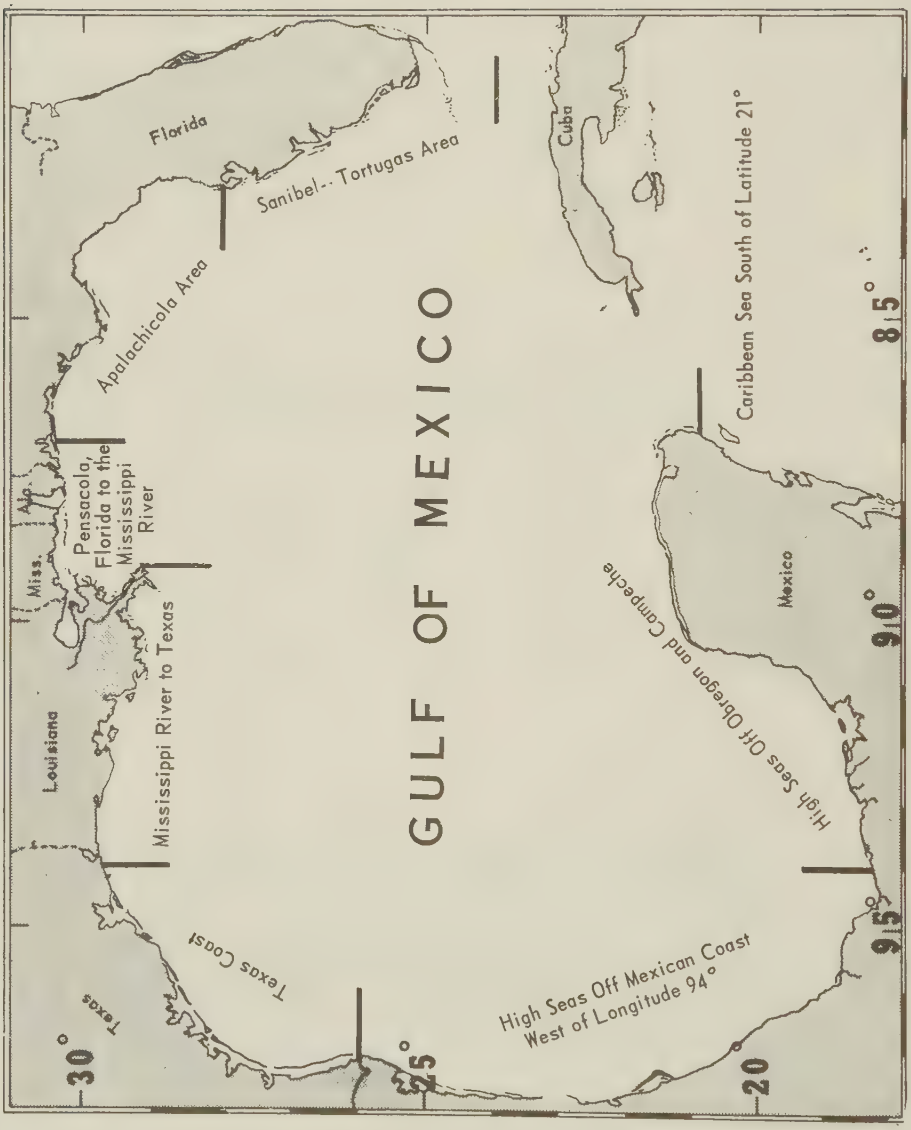

Florida
Sanibel-- Tortugas Area
Apalachicola Area
Pensacola, Florida to the Mississippi River
Ala.
Miss.
Louisiana
Mississippi River to Texas
Texas
Texas Coast
GULF OF MEXICO
Cuba
Caribbean Sea South of Latitude 21°
High Seas Off Obregon and Campeche
Mexico
High Seas Off Mexican Coast West of Longitude 94°
30°
25°
20
95°
90°
85°

Chart depicting the major statistical areas used in reporting the shrimp catch by fishing craft on trips completed during 1964.

GULF SHRIMP FISHERY, 1964

Although landings were 15.1 million pounds (heads-off) below 1963, most segments of the shrimp industry had a profitable year. Strong demand for shrimp and a greater percentage of higher priced large shrimp resulted in relatively high and stable ex-vessel prices most of the year. During 1964, shrimp of 30-count-and-under-to-the-pound (heads-off) were 39 percent of the total landings compared with 34 percent the previous year.

This was the first year since the Bureau's detailed statistical program began in 1956 that white shrimp landings exceeded those of brown: White shrimp accounted for 39 percent of the total landings; brown, 37 percent; and pink, 24 percent. During the previous year, white shrimp made up 37 percent of the total landings; brown, 43 percent; pink, 19 percent; and seabobs, 1 percent. Louisiana and Texas fishermen found an excellent crop of white shrimp in coastal waters in the fall of 1963, and a sizeable "wintering over" of these shrimp in Louisiana waters led to record catches during the first 5 months of the year.

Although the shrimp grounds between the Mississippi River and the Louisiana-Texas border were again the most productive, accounting for 33 percent of the total Gulf landings, they yielded 28 percent less than in 1963. Catches from grounds off the Texas coast were down 9 percent; and between Pensacola, Fla., and the Mississippi River, 16 percent. Production off Tortugas and Campeche, in the Caribbean, and on the high seas off the Mexican coast west of long. 94°, however, was substantially better than the previous year.

The following tabulations include information on the species of shrimp taken in the Gulf by size; the number of fishing trips; and the catch by area, depth, and size. Catch figures represent the heads-off weight and, therefore, are not directly comparable with the heads-on (live weight) quantities published in the General Review, regional tables, or the Review of Certain Major Fisheries. The pounds of heads-off shrimp may be converted to heads-on weight by multiplying brown shrimp poundage by 1.61; white, 1.54; pink, 1.60; seabobs, 1.53; and royal red, 1.80.

Information on the landings and catch of shrimp in the Gulf area in the following tables has been previously published in Current Fishery Statistics No. 3785. Data on landings and value of shrimp by species and size for the South Atlantic States are included in Section 5 of this Digest.

SUMMARY OF GULF SHRIMP LANDINGS, 1964

SIZE	BROWN		PINK		WHITE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
UNDER 15	2,193,068	$1,908,388	76,173	$66,787	521,711	$463,293
15 - 20	6,109,208	4,872,209	1,621,744	1,244,382	6,254,269	5,079,671
21 - 25	5,489,523	3,966,429	2,472,174	1,761,940	6,413,529	4,617,751
26 - 30	4,222,448	2,769,284	3,225,950	2,132,483	5,076,010	3,222,915
31 - 40	8,492,263	4,719,817	8,178,706	4,855,842	8,828,362	4,670,346
41 - 50	3,989,766	1,804,978	5,353,828	2,712,212	4,962,142	2,189,530
51 - 67	5,790,769	2,060,375	3,543,289	1,457,706	5,422,648	2,116,486
68 AND OVER	5,874,177	1,551,564	2,335,167	516,387	6,499,175	1,858,548
TOTAL	42,161,222	23,653,044	26,807,031	14,747,739	43,977,846	24,218,540

SIZE	SEA BOBS		ROYAL RED		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
UNDER 15	-	-	-	-	2,790,952	$2,438,468
15 - 20	-	-	-	-	13,985,221	11,196,262
21 - 25	-	-	-	-	14,375,226	10,346,120
26 - 30	-	-	2,058	$1,258	12,526,466	8,125,940
31 - 40	-	-	2,533	1,432	25,501,864	14,247,437
41 - 50	-	-	-	-	14,305,736	6,706,720
51 - 67	-	-	-	-	14,756,706	5,634,567
68 AND OVER	333,141	$68,978	-	-	15,041,660	3,995,477
TOTAL	333,141	68,978	4,591	2,690	113,283,831	62,690,991

GULF SHRIMP LANDINGS, BY SPECIES AND SIZE, 1964

SPECIES AND SIZE	FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALJE
BROWN:						
UNDER 15	-	-	25,377	$20,772	4,356	$3,558
15 - 20	17,427	$13,449	292,313	232,826	157,979	121,258
21 - 25	34,954	23,595	280,550	197,022	77,483	52,620
26 - 30	41,373	25,508	177,919	113,953	69,923	40,906
31 - 40	60,135	32,733	471,066	263,217	369,212	177,227
41 - 50	49,732	21,459	378,979	175,262	476,766	196,274
51 - 67	128,506	45,912	528,302	205,229	956,258	329,357
68 AND OVER	166,169	51,108	692,556	221,009	762,705	225,130
TOTAL	498,296	213,764	2,847,062	1,429,290	2,874,682	1,146,330
PINK:						
15 - 20	1,085,243	827,308	117	95	1,423	1,164
21 - 25	1,997,700	1,430,002	330	222	1,242	686
26 - 30	2,887,568	1,913,125	6,545	4,045	2,484	1,506
31 - 40	7,174,377	4,260,394	17,409	9,339	7,186	3,716
41 - 50	4,604,349	2,297,399	28,466	12,777	7,327	3,036
51 - 67	3,073,882	1,227,138	12,871	4,929	9,934	3,544
68 AND OVER	2,317,334	510,564	15,357	4,983	2,476	840
TOTAL	23,140,453	12,465,930	81,095	36,390	32,072	14,492
WHITE:						
UNDER 15	140	115	3,035	2,588	-	-
15 - 20	55,965	45,429	468,770	390,182	132,726	97,771
21 - 25	158,386	119,717	587,419	449,385	368,209	248,825
26 - 30	230,026	148,307	199,289	135,007	244,264	140,738
31 - 40	189,432	101,870	174,387	103,427	112,206	57,234
41 - 50	131,821	58,140	100,222	49,293	81,332	37,339
51 - 67	225,526	82,494	72,116	28,645	94,611	37,032
68 AND OVER	345,475	81,046	18,928	5,607	94,231	25,068
TOTAL	1,336,771	637,118	1,624,166	1,164,134	1,127,579	644,007
SEA BOBS	52,377	5,461	-	-	-	-
GRAND TOTAL	25,027,897	13,322,273	4,552,323	2,629,814	4,034,333	1,804,829

SPECIES AND SIZE	LOUISIANA		TEXAS		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BROWN:						
UNDER 15	440,541	$373,313	1,722,794	$1,510,745	2,193,068	$1,908,388
15 - 20	807,218	643,712	4,834,271	3,860,964	6,109,208	4,872,209
21 - 25	254,187	182,103	4,842,349	3,511,089	5,489,523	3,966,429
26 - 30	307,247	193,745	3,625,986	2,395,172	4,222,448	2,769,284
31 - 40	1,145,967	609,964	6,445,883	3,636,676	8,492,263	4,719,817
41 - 50	672,688	298,712	2,411,601	1,113,271	3,989,766	1,804,978
51 - 67	2,709,390	905,296	1,468,313	574,581	5,790,769	2,060,375
68 AND OVER	3,674,173	918,069	578,574	136,248	5,874,177	1,551,564
TOTAL	10,011,411	4,124,914	25,929,771	16,738,746	42,161,222	23,653,044
PINK:						
UNDER 15	-	-	76,173	66,787	76,173	66,787
15 - 20	-	-	534,961	415,815	1,621,744	1,244,382
21 - 25	-	-	472,902	331,030	2,472,174	1,761,940
26 - 30	-	-	329,353	213,807	3,225,950	2,132,483
31 - 40	-	-	979,734	582,393	8,178,706	4,855,842
41 - 50	-	-	713,686	399,000	5,353,828	2,712,212
51 - 67	-	-	446,602	222,095	3,543,289	1,457,706
68 AND OVER	-	-	-	-	2,335,167	516,387
TOTAL	-	-	3,553,411	2,230,927	26,807,031	14,747,739
WHITE:						
UNDER 15	386,911	346,834	131,625	113,756	521,711	463,293
15 - 20	3,553,909	2,944,589	2,042,899	1,601,700	6,254,269	5,079,671
21 - 25	3,006,744	2,217,770	2,292,771	1,582,054	6,413,529	4,617,751
26 - 30	2,325,445	1,489,223	2,076,986	1,309,640	5,076,010	3,222,915
31 - 40	5,493,260	2,863,717	2,859,077	1,544,098	8,828,362	4,670,346
41 - 50	3,498,278	1,542,115	1,150,489	502,643	4,962,142	2,189,530
51 - 67	4,064,613	1,587,940	965,782	380,375	5,422,648	2,116,486
68 AND OVER	5,471,115	1,607,806	569,426	139,021	6,499,175	1,858,548
TOTAL	27,800,275	14,599,994	12,089,055	7,173,287	43,977,846	24,218,540
SEA BOBS	280,764	63,517	-	-	333,141	68,978
ROYAL RED:						
26 - 30	2,058	1,258	-	-	2,058	1,258
31 - 40	540	281	1,993	1,151	2,533	1,432
TOTAL	2,598	1,539	1,993	1,151	4,591	2,690
GRAND TOTAL	38,095,048	18,789,964	41,574,230	26,144,111	113,283,831	62,690,991

SEE NOTE ON PAGE 255.

GULF COAST SHRIMP CATCH BY AREA, DEPTH, AND SIZE, 1964

MAJOR WATER AREA, DEPTH, AND SPECIES	TRIPS	SIZE (NUMBER OF HEADS-OFF SHRIMP TO THE POUND)								TOTAL
		UNDER 15	15 - 20	21 - 25	26 - 30	31 - 40	41 - 50	51 - 67	68 & OVER	
	NUMBER	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
SANIBEL AND TORTUGAS:										
0 - 5 FATHOMS: PINK		-	1,350	-	3,077	7,338	577	5,975	26,503	44,820
WHITE		-	-	-	-	-	-	289	-	289
6 - 20 FATHOMS: BROWN		-	165	175	255	330	1,700	270	-	2,895
PINK		-	242,593	926,601	1,116,962	2,581,838	2,406,816	2,576,427	2,027,591	11,878,828
WHITE		-	-	1,560	-	-	-	-	-	1,560
21 - 35 FATHOMS: PINK		-	68,357	172,558	83,743	82,695	55,533	27,929	4,921	495,736
TOTAL	8,532.6	-	312,465	1,100,894	1,204,037	2,672,201	2,464,626	2,610,890	2,059,015	12,424,128
APALACHICOLA AREA:										
0 - 5 FATHOMS: BROWN		-	-	1,474	18,928	38,728	48,262	128,139	165,978	401,509
PINK		-	858	9,643	30,331	169,383	154,698	154,152	120,316	639,381
WHITE		140	15,733	37,901	151,070	155,319	125,060	224,973	345,150	1,055,346
SEA BOBS		-	-	-	-	-	-	-	52,377	52,377
6 - 20 FATHOMS: BROWN		-	203	-	-	-	-	367	191	761
PINK		-	3,421	84,570	217,653	178,244	179,203	173,216	145,820	982,127
WHITE		-	1,744	12,463	17,799	3,850	4,386	264	325	40,831
TOTAL	10,933.6	140	21,959	146,051	435,781	545,524	511,609	681,111	830,157	3,172,332
PENSACOLA TO MISSISSIPPI RIVER:										
0 - 5 FATHOMS: BROWN		5	757	2,754	18,206	131,993	319,467	677,537	1,088,948	2,239,667
PINK		-	20	190	893	2,590	18,025	14,057	2,110	37,885
WHITE		1,206	194,876	484,783	345,751	651,872	419,677	512,339	444,720	3,055,224
SEA BOBS		-	-	-	-	-	-	-	2,549	2,549
6 - 20 FATHOMS: BROWN		16,765	167,945	376,124	341,862	1,026,508	734,985	1,147,199	455,928	4,267,316
PINK		-	1,520	1,157	7,281	17,780	16,814	6,269	7,540	58,361
WHITE		4,364	449,469	512,876	183,354	209,616	87,846	45,463	49,355	1,542,343
SEA BOBS		-	-	-	-	-	-	-	947	947
21 - 35 FATHOMS: BROWN		9,390	184,885	6,523	7,111	50,957	930	76	1,785	261,657
PINK		-	-	-	-	156	-	-	-	156
WHITE		105	5,339	6,824	1,471	1,569	1,784	80	408	17,580
206 - 225 FATHOMS: ROYAL RED		-	-	-	2,058	2,533	-	-	-	4,591
TOTAL	32,363.6	31,835	1,004,811	1,391,231	907,987	2,095,574	1,599,528	2,403,020	2,054,290	11,488,276
MISSISSIPPI RIVER TO TEXAS:										
0 - 5 FATHOMS: BROWN		5	2,432	837	4,102	86,617	236,136	1,906,453	3,336,216	5,572,798
PINK		-	-	-	-	-	-	555	366	921
WHITE		63,725	997,163	1,854,866	1,701,749	3,947,355	2,724,621	3,354,787	4,947,583	19,591,849
SEA BOBS		-	-	-	-	-	-	-	274,642	274,642
6 - 20 FATHOMS: BROWN		60,681	203,289	134,469	124,578	602,650	310,973	478,168	243,480	2,158,288
PINK		-	-	-	-	-	-	52	-	52
WHITE		320,692	3,027,795	1,400,529	890,779	1,483,319	592,582	492,678	309,311	8,517,685
SEA BOBS		-	-	-	-	-	-	-	2,626	2,626
21 - 45 FATHOMS: BROWN		392,274	852,769	150,867	95,335	136,958	17,102	5,550	2,995	1,653,850
PINK		625	1,335	1,785	65	60	-	-	-	3,870
WHITE		1,542	6,148	4,087	5,823	7,346	506	2,106	1,480	29,038
TOTAL	129,548.5	839,544	5,090,931	3,547,440	2,822,431	6,264,305	3,881,920	6,240,349	9,118,699	37,805,619
TEXAS COAST:										
0 - 5 FATHOMS: BROWN		40	1,800	2,332	8,767	9,461	73,675	145,115	565,183	806,373
WHITE		13,600	468,099	1,471,371	1,399,468	2,004,441	937,804	749,038	399,656	7,443,477
6 - 20 FATHOMS: BROWN		272,967	1,297,681	2,643,423	2,763,036	4,732,649	1,723,405	1,123,799	13,473	14,570,433
PINK		-	7	-	1,921	16,115	5,371	1,873	-	25,287

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GULF COAST SHRIMP CATCH BY AREA, DEPTH, AND SIZE, 1964 - Continued

MAJOR WATER AREA, DEPTH, AND SPECIES	TRIPS	SIZE (NUMBER OF HEADS-OFF SHRIMP TO THE POUND)								TOTAL
		UNDER 15	15 - 20	21 - 25	26 - 30	31 - 40	41 - 50	51 - 67	68 & OVER	
	NUMBER	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
TEXAS COAST - CONTINUED:										
6 - 20 FATHOMS: WHITE		87,858	916,524	527,334	321,214	331,659	63,574	39,187	1,187	2,288,537
21 - 40 FATHOMS: BROWN		276,504	2,119,439	1,116,306	297,881	415,811	170,922	94,857	-	4,491,720
PINK		250	5,097	5,509	481	3,931	5	-	-	15,273
WHITE		95	4,569	5,490	768	2,236	66	346	-	13,570
TOTAL	51,893.5	651,314	4,813,216	5,771,765	4,793,536	7,516,303	2,974,822	2,154,215	979,499	29,654,670
HIGH SEAS OFF MEXICAN COAST WEST OF 94^0 LONGITUDE:										
0 - 5 FATHOMS: WHITE		-	-	20	-	-	-	-	-	20
6 - 20 FATHOMS: BROWN		41,873	90,639	70,861	20,653	80,398	32,720	5,216	-	342,360
WHITE		9,411	21,105	10,508	2,757	5,606	3,594	1,098	-	54,079
21 - 40 FATHOMS: BROWN		1,039,890	1,082,372	889,964	458,535	1,004,744	246,055	35,770	-	4,757,330
PINK		1,607	1,920	1,330	421	1,641	1,124	465	-	8,508
WHITE		-	-	585	-	-	-	-	-	585
TOTAL	2,492.0	1,092,781	1,196,036	973,268	482,366	1,092,389	283,493	42,549	-	5,162,882
HIGH SEAS OFF OBREGON AND CAPECHE:										
6 - 20 FATHOMS: BROWN		28,710	45,615	42,023	32,904	105,220	56,990	33,931	-	345,393
PINK		50,348	686,295	921,586	1,273,772	3,700,842	1,986,269	523,699	2,430	9,145,241
WHITE		17,773	112,271	7,678	1,485	90	30	-	-	139,327
21 - 45 FATHOMS: BROWN		54,254	57,769	50,226	22,486	38,382	15,983	7,772	-	246,872
PINK		21,855	612,621	376,752	364,520	635,066	349,729	14,743	-	2,375,286
WHITE		125	1,160	-	-	-	-	-	-	1,285
TOTAL	1,257.5	173,065	1,515,731	1,398,265	1,695,167	4,479,600	2,409,001	580,145	2,430	12,253,404
CARIBBEAN SEA SOUTH OF 21^0 NORTH LATITUDE:										
0 - 5 FATHOMS: PINK		-	-	-	-	713	-	-	-	713
WHITE		-	-	1,215	3,880	12,165	-	-	-	17,260
6 - 20 FATHOMS: BROWN		-	276	-	-	15,000	-	-	-	15,276
PINK		-	-	3,594	53,721	305,460	94,959	-	-	457,734
WHITE		50	16,041	36,643	30,967	6,152	457	-	-	90,310
21 - 30 FATHOMS: BROWN		-	-	-	6,792	-	-	-	-	6,792
PINK		-	4,080	7,610	123,856	558,158	575	-	-	694,279
WHITE		-	-	-	17,685	3,695	-	-	-	21,380
TOTAL	89.7	50	20,397	49,062	236,901	901,343	95,991	-	-	1,303,744
ATLANTIC OCEAN:										
6 - 15 FATHOMS: BROWN		-	-	-	-	242	-	-	-	242
WHITE		-	-	-	-	-	160	-	-	160
TOTAL	2.0	-	-	-	-	242	160	-	-	402
GRAND TOTAL	237,113.0	2,788,729	13,975,546	14,377,976	12,578,206	25,567,481	14,221,150	14,712,279	15,044,090	113,265,457

NOTE:--THESE DATA REPRESENT THE CATCHES OF VESSELS COMPLETING TRIPS DURING THE YEAR, REGARDLESS OF WHEN LANDINGS OCCURRED. CONSEQUENTLY, THE DATA ARE NOT DIRECTLY COMPARABLE WITH THOSE PRESENTED IN THE TABLE WHICH REPRESENT LANDINGS. A SINGLE TRIP IS SHOWN FOR EACH VOYAGE. ADDITIONAL TABULATIONS CONCERNING THE GULF OF MEXICO CATCH OF SHRIMP IN MORE DETAIL BY AREA, DEPTH, SIZE, AND FISHING EFFORT MAY BE OBTAINED UPON REQUEST FROM THE U. S. FISH AND WILDLIFE SERVICE, BUREAU OF COMMERCIAL FISHERIES, BRANCH OF FISHERY STATISTICS, WASHINGTON, D. C. 20240.

SOUTH ATLANTIC AND GULF COAST SHRIMP LANDINGS, 1964

SPECIES AND SIZE	SOUTH ATLANTIC		GULF		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BROWN:						
UNDER 15	-	-	2,193,068	$1,908,388	2,193,068	$1,908,388
15 - 20	246,902	$176,125	6,109,208	4,872,209	6,356,110	5,048,334
21 - 25	530,812	366,903	5,489,523	3,966,429	6,020,335	4,333,332
26 - 30	1,241,223	787,975	4,222,448	2,769,284	5,463,671	3,557,259
31 - 40	1,786,915	979,909	8,492,263	4,719,817	10,279,178	5,699,726
41 - 50	375,789	168,603	3,989,766	1,804,978	4,365,555	1,973,581
51 - 67	194,768	72,241	5,790,769	2,060,375	5,985,537	2,132,616
68 AND OVER	27,079	7,340	5,874,177	1,551,564	5,901,256	1,558,904
TOTAL	4,403,488	2,559,096	42,161.222	23,653,044	46,564,710	26,212,140
PINK:						
UNDER 15	-	-	76,173	66,787	76,173	66,787
15 - 20	61,066	43,229	1,621,744	1,244,382	1,682,810	1,287,611
21 - 25	91,692	61,382	2,472,174	1,761,940	2,563,866	1,823,322
26 - 30	129,123	83,145	3,225,950	2,132,483	3,355,073	2,215,628
31 - 40	388,744	225,682	8,178,706	4,855,842	8,567,450	5,081,524
41 - 50	246,411	110,808	5,353,828	2,712,212	5,600,239	2,823,020
51 - 67	274,596	103,179	3,543,289	1,457,706	3,817,885	1,560,885
68 AND OVER	25,898	8,644	2,335,167	516,387	2,361,065	525,031
TOTAL	1,217,530	636,069	26,807,031	14,747,739	28,024,561	15,383,808
WHITE:						
UNDER 15	-	-	521,711	463,293	521,711	463,293
15 - 20	165,744	145,724	6,254,269	5,079,671	6,420,013	5,225,395
21 - 25	1,167,714	910,623	6,413,529	4,617,751	7,581,243	5,528,374
26 - 30	1,175,366	830,571	5,076,010	3,222,915	6,251,376	4,053,486
31 - 40	1,302,211	824,558	8,828,362	4,670,346	10,130,573	5,494,904
41 - 50	711,420	380,127	4,962,142	2,189,530	5,673,562	2,569,657
51 - 67	580,161	245,317	5,422,648	2,116,486	6,002,809	2,361,803
68 AND OVER	169,603	52,466	6,499,175	1,858,548	6,668,778	1,911,014
TOTAL	5,272,219	3,389,386	43,977,846	24,218,540	49,250,065	27,607,926
SEA BOBS	-	-	333,141	68,978	333,141	68,978
ROYAL RED:						
15 - 20	3,108	2,028	-	-	3,108	2,028
21 - 25	33,884	21,610	-	-	33,884	21,610
26 - 30	1,227	741	2,058	1,258	3,285	1,999
31 - 40	-	-	2,533	1,432	2,533	1,432
41 - 50	36,843	16,059	-	-	36,843	16,059
51 - 67	24,091	8,806	-	-	24,091	8,806
TOTAL	99,153	49,244	4,591	2,690	103,744	51,934
GRAND TOTAL	10,992,390	6,633,795	113,283,831	62,690,991	124,276,221	69,324,786

NOTE:--ALL WEIGHTS ARE ON HEADS-OFF BASIS. THE SIZE INDICATES THE NUMBER OF HEADS-OFF SHRIMP TO THE POUND. TO CONVERT TO HEADS-ON MULTIPLY BY 1.61 FOR BROWN, 1.60 FOR PINK, 1.54 FOR WHITE, 1.53 FOR SEA BOBS, AND 1.80 FOR ROYAL RED. THE STATES LISTED REPRESENT THE STATES WHERE THE SHRIMP WERE LANDED REGARDLESS OF WHERE CUAGHT THE NAMES OF THE SPECIES USED IN THESE TABLES ARE AS FOLLOWS: WHITE SHRIMP (MOSTLY PENAEUS SETIFERUS), BROWN SHRIMP (PENAEUS ASTECUS, AND IN SOME CASES PENAEUS BRASILIENSIS), PINK SHRIMP (PENAEUS DUORARUM), SEA BOBS (MOSTLY XIPHOPENAEUS KROYERI), AND ROYAL RED (HYMENOPENAEUS ROBUSTUS). THE VALUE REPORTED IS THE AMOUNT RECEIVED BY THE OWNERS OR OPERATORS OF THE VESSELS FOR THE FIRST SALE AT THE DOCK. ANY EXPENSES INVOLVED IN HANDLING OR PROCESSING ASHORE ARE NOT INCLUDED, EVEN THOUGH CHARGEABLE TO THE VESSEL. THE SIZE REPORTED GENERALLY IS THAT USED AS OF THE FIRST SALE. SIZE GRADING IN VARYING DEGREES OF UNIFORMITY MAY OR MAY NOT OCCUR AT, OR PRIOR TO, THE TIME FIRST SALES ARE MADE. IF GRADING IS NOT DONE AT THIS TIME, THE SIZE REPORTED IS AN AVERAGE SIZE AND MAY INCLUDE SEVERAL SIZE CLASSIFICATIONS.

SURVEY PROCEDURE IN THE GULF OF MEXICO

The statistical program in the Gulf States is under the general direction of the Bureau's Regional Office in St. Petersburg Beach, Fla., with direct supervision by a regional supervisor of statistics and market news in New Orleans, La. The program is prosecuted by field reporters stationed at Key West, Miami, Fort Myers, Tampa, and Apalachicola, Fla.; Bayou LaBatre, Ala.; Ocean Springs, Miss.; New Orleans, Galiano, Houma, and Morgan City, La.; and Port Arthur, Galveston, Freeport, Aransas Pass, Brownsville, and Port Isabel, Texas. These field reporters are specialists trained in obtaining and reporting fishery statistical data on a daily, monthly, and annual basis.

Statistics assembled by the Bureau on the fisheries of the Gulf States Coastal area include data on employment of fishermen, shoreworkers, fishing craft and gear, the volume and value of the catch, and the volume and value of processed fishery products. The data are assembled from all available sources including records maintained by State fishery agencies, fishermen, and fish wholesale dealers, buyers, and processors.

Catch. Cooperative programs of differing magnitudes have been established with the fishery agencies of each of the five Gulf States. Texas and Florida have State monthly reporting systems, whereby dealers and buyers are required to submit a monthly report on forms supplied by the State, listing the quantity of fish and shellfish by species purchased from fishermen. Field reporters of the Bureau of Commercial Fisheries assist in the collection and tabulation of data for publishing in monthly landing bulletins for these States. In Alabama, Mississippi, and Louisiana, tax records are utilized by Bureau employees in obtaining landing data on oysters. Certain catch records on fish landed in Louisiana are also obtained from records of that State. Data on receipts in the New Orleans French Market are collected by reporting specialists of the Bureau on a daily basis for use in the daily reports published by the Fishery Market News Service and are supplied the State of Louisiana at the end of each month. Information on all finfish, crab, and shrimp landings in Alabama and Mississippi is collected by Bureau employees.

Shortly after the close of each year, a revised tabulation is prepared listing the species catch by volume and value by county. Shrimp are excluded since they have been recorded on punch cards each month. Such revisions as are necessary in the daily or monthly data previously published are made in the annual tabulation. Fishermen and dealers are interviewed to determine the area of capture (water body) and the type of gear utilized for taking each species. When the interview is completed, the landings (or catches) totals are prorated to the proper waters and gear within each county, and catch statistics by waters and gear for each county are forwarded to the Washington office. The data are transferred to punch cards and machine processed. Detailed information on the shrimp catch, which had previously been entered on punch cards is now integrated with the figures for other species. Processed data are forwarded to field reporters for examination, auditing, and necessary revisions, after which they are returned to the Washington office for final review and publication.

Throughout the Gulf, shrimp data are obtained daily by Bureau reporting specialists and recorded on individual landing reports that list the name of the vessel and the volume and ex-vessel value of the catch by species, size, and area of capture. A schedule is prepared for each vessel for each trip. These are forwarded to the Washington office, about 2 weeks after the end of the month in which the landings occurred. The data are machine processed to provide the detailed statistical information required by those interested in the shrimp fishery.

During recent years, there has been a trend toward obtaining catch data on a monthly basis in sufficient detail to permit their direct use in the annual Statistical Digest. In the States of Alabama and Mississippi, data on the catch by gear, water, and species are obtained on a monthly basis and entered on punch cards from which are prepared the monthly landing bulletins. The punch cards are then utilized to prepare the annual tabulations for publication in Fishery Statistics of the United States. Considerably more detail on the catch by waters and gear is available than is published in this report.

Operating units. Prepunched vessel cards containing the name of the vessel, the official number, rig code, gross tons, length, and year built are furnished field reporters each year. These cards are obtained from the Bureau of Customs and are checked out by field personnel. Reporters interview the vessel captains to obtain number of crew, and number, type, and quantity of gear utilized in each fishery. The number of crew reported is the greatest number of crewmen aboard the vessel for each gear operated at any one time. Number and quantity of gear are represented by the greatest amount of gear the craft utilized at one time. The data do not include gear ashore or carried aboard the vessel for replacement. Field reporters maintain a list of the fishing vessels obtained from the State records to ensure completeness in the operating unit survey. Machine tabulations of shrimp landings are utilized to obtain the vessels fishing this species during the year. A vessel is reported once for each type of gear fished in each State.

Data on crew and gear are recorded directly on the prepunched cards. (Data on all craft of less than 5 net tons are classified as shore and boat craft, and a single card is prepared for the total number of boats using each type of gear in each county). The field entries are punched and processed in the Region under contract by a service agency and the tabulations are returned to each reporter who prepares the State operating unit tables. After review by the Regional Supervisor, they are forwarded to the Washington Office.

Processing and Manufacturing. Data on the production of processed fishery and manufactured products are obtained from individual firms, on forms designed for the collection of these data. Much of the information on the pack of canned shrimp, oyster, and crab meat by can size and number of cases is obtained and published each week in the New Orleans Market News report. Subsequently, revisions are made, and a yearly annual total by firm is submitted to the Central Office for publication in the Canned Fishery Products bulletin. Information on the production of fish meal, oil, and solubles is obtained each month for publication in monthly Fish Meal and Oil bulletins and in the annual report, Industrial Fishery Products. Data on the monthly production of fish sticks and portions and breaded shrimp are collected quarterly for publication in Fish Sticks and Portions and Breaded Shrimp. Packaged fish and shellfish data are obtained on an annual basis from each firm, and summaries are published in the annual Packaged Fishery Products bulletin. A summary of the production of all processed fishery items, including shellfish, is contained in the Gulf States sectional annual bulletin.

Data on freezings and holdings of fishery products are collected monthly on a special form which is mailed at the end of the month to each cold storage warehouse in the Gulf States. After auditing, the completed reports are returned to the New Orleans office. The schedules are then mailed to the Washington Office where they are again reviewed before tabulation and publication in monthly and annual frozen fishery products bulletins.

General. A considerable quantity of current fishery data are available in the daily report issued by the New Orleans Fishery Market News Office. Persons interested in day-to-day fluctuations should consult these reports. Those interested in seasonal fluctuations should refer to the monthly landing bulletins. The Statistical Digest, Fishery Statistics of the United States contains the most complete annual data. Information on the catch by waters is tabulated and supplied to State and Federal laboratories along the Gulf Coast.

SECTION 7 - PACIFIC COAST FISHERIES

In 1964, the commercial fisheries of the Pacific Coast States yielded a catch of 1.2 billion pounds valued at $129.3 million--a gain of 34.9 million pounds (3 percent) and $5.2 million (4 percent) compared with the previous year. Landings of salmon, king crabs, and sea herring increased substantially, but tuna, halibut, jack and Pacific mackerel, and shrimp were less.

The Pacific Coast States accounted for 25 percent of the volume and 33 percent of the value of the total U.S. catch. They were second only to the Gulf Coastal States in quantity and led all other areas in value. California was first in volume of landings with 500.9 million pounds (43 percent), followed by Alaska, 492.6 million (43 percent); Washington, 100.9 million (9 percent); and Oregon, 57.2 million pounds (5 percent). Alaska led in value with $56.0 million (43 percent); followed by California, $50.7 million (39 percent); Washington, $15.6 million (12 percent); and Oregon, $7.0 million (6 percent).

Fishermen and vessels. There were 33,099 commercial fishermen on the Pacific coast--513 less than in 1963. There were 4,567 vessels of 5 net tons or more--a decrease of 224 compared with 1963.

The largest U.S. vessel built for fishing, the City of Tacoma, a 167-foot tuna seiner with a carrying capacity of 800 tons, entered the Eastern Pacific tuna fishery in 1964. This vessel is the third of a new class of steel tuna vessels designed exclusively for seining tuna. Its capacity is about 50 tons greater than for the other seiners of its class, Hornet and Caribbean, built in 1963. The Day Island, a converted military craft larger than the City of Tacoma, landed about 1,080 tons of tuna in Puerto Rico in 1964--a record for a U.S. vessel.

Processing. Processed fishery products on the Pacific coast were worth $350.0 million in 1964--$24.4 million (8 percent) more than in the previous year. California led with 50 percent of the total, followed by Alaska, with 34 percent. Alaska showed the greatest percentage gain, with the value of its processed products 25 percent more than in 1963--principally the result of increases in the production of fresh and frozen king crab meat and canned salmon.

Several events profoundly affected processing in the Pacific Coast States during the year. The earthquake in Alaska destroyed or severely damaged king crab and razor clam canning facilities, thus reducing the pack of these items. The use of liquid nitrogen in freezing had an impact on preservation of fishery products and continued improvement in processing and handling of shrimp extended the market for these shellfish.

The tuna industry recovered from an unfortunate bacterial contamination scare in the previous year, and the volume of the pack increased 2 percent while the value rose 3 percent. Albacore and light meat tuna were packed in greater quantities despite a decline in landings of albacore, bluefin, and skipjack tuna. The increased pack was accomplished through large increases in imports of albacore and in the catch of yellowfin.

The pack of canned salmon in Alaska was nearly 900,000 cases more than in 1963, whereas the Puget Sound production declined 436,000 cases. The greater Alaska pack was caused by sharply increased runs of chum, pink, and red salmon, whereas the normal even-year absence of pink from Washington waters caused the decline in Puget Sound. The large packs of pink salmon--over 1,900,000 cases in both 1963 and 1964--resulted in heavy stocks of these fish. Sharp declines in price were made to move the fish.

The decline of 20,000 cases below the previous year's pack of king crab was caused principally by the Good Friday earthquake, which destroyed or severely damaged crab processing facilities. Three canneries were considered a total loss, and several others were temporarily out of operation. Although freezing facilities were also crippled, the production of fresh and frozen meat set new records. This product has become increasingly popular over the past decade.

A decline in the production of Dungeness crab meat was caused primarily by a shortage of crabs in Washington, Oregon, and California. Alaska has been steadily increasing its harvesting of Dungeness crabs; however, the earthquake curtailed operations in 1964.

The pack of canned shrimp declined to 47,100 cases, nearly 39,000 cases less than in 1963. The decline is believed by industry spokesmen to have been caused primarily by competitive conditions from the South Atlantic and Gulf shrimp.

The State of Alaska has been endeavoring to improve its shellfish harvesting because it provides more stable year-round employment and income than does the short seasonal salmon fishery.

Production of fresh and frozen fillets was but slightly lower than in the previous year.

High seas fishery. Pacific coast fishermen captured 281.8 million pounds of fish on the high seas off coasts of foreign countries--24 percent of the total catch. The tuna catch taken off Central and South America (slightly more than in 1963) accounted for 58 percent of the total U.S. landings off foreign coasts and 21 percent of the Pacific coast production. In 1964, Pacific coast fishermen ranged farther than those of any other area, operating from the Bering Sea to waters off Peru, and also off Atlantic Coast States.

Tuna. The catch of Pacific coast tuna (286.3 million pounds) was 4 percent less than in 1963, and the value ($36.8 million) declined 2 percent. A marked reduction in landings of albacore, 48.1 million pounds (down 12.7 million); bluefin, 23.2 million (down 7.2 million); and skipjack tuna, 66.0 million (down 30.6 million) accounted for the decline. The 149.0-million-pound yellowfin production, however, increased 39.4 million pounds (36 percent) from 1963 levels, but the gain was not enough to offset reduced landings of other tuna.

The 1964 run of albacore off the Washington and Oregon coasts was light. Although Washington landings of 1.1 million pounds were more than double those of the previous year and the largest since 1959, the Oregon production declined from 11.4 million pounds in 1963 to 4.5 million. In California, albacore landings of 42.5 million pounds were 6.3 less than in 1963. The 1964 California albacore season got off to a slow start in early July, with landings reaching a seasonal high during mid-August. Although the fish were widely scattered from late August through September, good catches were made from Morro Bay north to the Eureka and Fort Bragg areas until high winds and rough seas curtailed fishing. Late in October, fishing was resumed. The focal point was in central California waters where bait boats continued to make excellent catches to the season's end. In November, late unseasonal landings established a record high for that month.

The California ex-vessel price for albacore opened at $325 per ton--the same as in the latter part of 1963. The price remained fairly steady throughout the year, and no fishing time was lost because of price disputes.

Yellowfin landings in California (149.0 million pounds) were larger than in the previous 2 years, but well below the record of 191.9 million pounds taken in 1961. The Inter-American Tropical Tuna Commission recommended a catch quota to conserve yellowfin tuna. The quota, which was scheduled to become effective in July 1964, could not be established because all countries participating in the fishery were not in agreement.

Although the domestic catch of tuna was less in 1964 than in 1963, imports of tuna for canning were up sharply, and the total 1964 U.S. tuna pack was a record 17.7 million cases valued at $217.6 million. The pack in the Pacific Coast States (California, Oregon, and Washington) was 10.8 million cases valued at $131.8 million, an increase of 2 percent in quantity and 3 percent in value compared with 1963. The California tuna pack was 53 percent of the total U.S. canned tuna production, 2 percent less than in 1963.

Salmon. The year 1964 marked an important milestone in the salmon industry. It was just 100 years earlier in 1864, that three enterprising fishermen from Maine--William and George Hume and Andrew S. Hapgood--with a makeshift cannery located on a barge in the Sacramento River, California, first successfully canned this important seafood. Despite a declining resource and other problems besetting the industry, it is still the second most important seafood item canned in the United States. During the past 12 years, production of canned salmon averaged 3,471,500 cases (166,600,000 pounds) annually. This is a far cry from the heyday of the industry during the 1930's when the pack averaged nearly 7,000,000 cases. The 1964 pack was below expectations. Lower than predicted runs of red salmon in Bristol Bay, an off-year cycle for pinks in Puget Sound, and the sale of 14 million pounds of Central Alaska pinks to the Japanese prevented the pack from reaching anticipated higher levels. The sockeye run was a disappointment in Bristol Bay as well as in Puget Sound, the two chief sources of these fish. The decline in Bristol Bay was caused chiefly by the weak run in Kvichak, although other streams in the Bay were about up to expectations. The 1964 run was larger than in 1962 or 1963, but fell short of predictions, thus causing hardships on the industry that had made preparations for a run about the size of the one in 1961. In Puget Sound, it was a low-cycle year for Fraser River sockeye. Hugh earth slides in the Chilcotin River Canyon in late August all but blocked the stream, but water finally broke through and the sockeye were able to reach their spawning grounds. A surprising development in the Washington sockeye run was the strong early run to Lake Washington in the heart of Seattle via the locks in the ship canal. It was estimated by scientists that more than 60,000 of these fish spawned in Cedar River after spending several months maturing in Lake Washington. The Skagit River in Washington also had a good sockeye run. The sockeye catch by Washington coast Indians fell sharply, totaling only 92,330 pounds compared with 341,400 in 1963.

Pink salmon continued to dominate the Alaska catch for the fourth straight year. The pack would undoubtedly have been about 200,000 cases higher had not the Japanese purchased pink salmon in Prince William Sound. In the late summer, after a price disagreement between fishermen and canners, Governor William Eagan invited the Japanese to enter the Sound and purchase fish direct from U.S. fishermen--an event unheard of in U.S. fishery annals. The situation was brought about because locally established canners in the Prince William Sound area felt they could not pay prices demanded by the fishermen and market the canned product profitably.

Elsewhere along the Alaska coast, price agreements were reached and pinks were again packed in volumes surpassing the previous year. Even in Western Alaska, the pack reached 68,000 cases, the largest pack since 1959. In Central Alaska, the pack of pink salmon surpassed 1963 by more than 350,000 cases but fell short of the 1962 pack by 278,000 cases. In Southeastern Alaska it was the same--heavy runs of pinks provided the bulk of the 1964 pack, despite a very slow starting season.

Silver salmon staged a comeback in such strength that the catch was the highest since 1954. Chum salmon were also more plentiful. Even in Western Alaska the runs showed remarkable strength.

The trolling season in Washington and Oregon opened April 15, after a 1-day strike. Uniform port prices were set at 68 cents a pound for large kings, 50 cents for medium, and 37 cents for small red kings. The beginning price for troll-caught silver salmon in Washington and Oregon was 30 cents per pound but was revised upward in successive steps to 43 cents at the end of the season. A considerable portion of the troll-caught silvers in Washington and Oregon was marketed through a cooperative pool.

The price of canned salmon declined in 1964. Following the large Alaska pack of pinks, the industry was hard pressed to market the pack at a profit. Tall pinks sold mostly at almost $20 per case--about $1.00 under 1963 prices. Chums, also in oversupply, sold mostly for more than $17 per case as compared with about $20, the previous year.

The fishing industry of the Columbia River received a tremendous morale boost in 1964. The voters of Oregon, by almost 3 to 1, defeated a measure, sponsored by sport fishing interests, which would have outlawed commercial salmon fishing on the Columbia River.

Halibut. U.S. halibut landings during 1964 were 35.0 million pounds (round weight) valued at $5.9 million--a decline of 10.5 million pounds and nearly $1.0 million compared with the previous year. Landings in Alaska were 22.8 million pounds valued at $3.6 million. The volume declined 24 percent and the value 14 percent compared with 1963; however, the average price was almost 2 cents per pound more than in the previous year.

Landings of halibut at Washington ports by U.S. craft were 12.1 million pounds valued at $2.3 million to the fishermen. This was a decline of 3.3 million pounds from 1963. The landed value did not decline proportionately: Washington landings averaged 25.4 cents per pound (dressed weight) compared with 23.1 cents in the previous year. Halibut landings at Washington ports by Canadian vessels dropped sharply to only 3.7 million pounds (round weight) compared with 5.7 million pounds in 1963. The decline in Washington halibut landings was due to both a smaller fishing fleet (92 Washington-Oregon vessels compared with 101 vessels in 1963) and higher prices paid at Alaska ports. Prices at Ketchikan averaged 22.4 cents a pound (dressed weight), only 12 percent less than those at Seattle, compared with a differential of nearly 15 percent in 1963. The main reason though, for the decline in U.S. halibut landings was the smaller fleet. Many vessels dropped out of the fishery in favor of salmon, crab, or other fisheries when it became apparent that halibut was scarce in many areas. The U.S. Alaska fleet of 179 vessels operated 6,203 skates of halibut gear compared with 289 vessels and 8,969 skates of lines in 1963. While the Canadian fleet also declined in numbers, it included several large new vessels that were very productive--with the result that Canadian fishermen caught 56 percent of the Pacific halibut catch in 1964 compared with 52 percent in 1963.

Halibut catch quotas for 1964 were reduced in certain areas. The quota for Area 3B North (Bering Sea Triangle) was set at 6.4 million pounds (dressed weight), down 4.6 million from 1963. The season opened in this area on March 25, and a large number of vessels fishing there failed to get one full fare. The total catch from that area was only 2.1 million pounds. It was the only area in which Japan was permitted to share in the halibut fishery with the United States and Canada. The Japanese vessels caught less than 300,000 pounds. The catch failure in 3B North proved that it had been overfished during the previous season. Only 400,000 pounds of halibut were caught by United States and Canadian vessels in other areas of the Bering Sea (Area 3B North). A quota of 4.0 million pounds was set for Area 3B South (North Pacific area west of Shumagin Islands), which previously had no catch limit, and it was the only area that attained its full quota. Halibut fishing opened on April 6, in Area 3B South and on May 1, in both Area 3A and Area 2. The catch quota for Area 3A remained unchanged at 34.0 million pounds; the August 19 closure for this area did not permit the full quota to be taken by 700,000 pounds. The combined halibut catch for Areas 3A and 3B South was nearly 38.0 million pounds. The Halibut Commission has calculated this to be the maximum sustainable yield. Following the decline in Area 2 halibut production in 1963, the 1964 catch limit was reduced 3.0 million pounds to a quota of 25.0 million pounds. Unusually bad weather and a smaller fishing fleet resulted in the Area 2 season extending through the full maximum period, to September 15, with the catch still 5.0 million pounds short of the quota. Areas 3B North and 3B South remained open to halibut fishing until October 15. Early season fishing was poor in Area 3B South, but a few vessels fished there after Area 3A closed and brought to Seattle some large catches which sold at premium prices of nearly 30 cents a pound. Oregon halibut production was 137,000 pounds (round weight)--not quite half that of 1963. Only 6 craft were longlining from Oregon ports.

Sablefish. Several Washington and Oregon halibut vessels entered the sablefish fishery in the fall of 1964. Although Area 2 remained open to halibut fishing until October 15, halibut were scarce and sablefish were more profitable. Longliners landed 1.5 million pounds of sablefish (dressed weight) at Washington ports in 1964--about the same as in 1963. The Oregon production of 100,000 pounds (dressed weight) was rather light. The market for large sablefish was strong in the fall of 1964, and many catches sold for more than 26 cents a pound, whereas the average for the year was 22.2 cents (dressed weight) for all line-caught sablefish in Washington--about 2 cents more than in 1963.

Mackerel, Pacific and jack. On January 1, 1964, the mackerel fleet was tied up because of the vessel owners' demands for an increase of $10 per ton for the fish. The vessels remained tied up until February 26, when a compromise settlement was reached. The agreement was to pay $47.50 per ton--up $5.00. Based on the monthly catch records for 1963, the loss was estimated at nearly 20.0 million pounds. On December 19, the fleet again tied up requesting an increase of $12.50 per ton which would bring the price to $60.00 per ton. As the year ended, the dispute had not been settled, but the tie-up had little affect on the catch since it came during the Christmas and New Year holidays, and the "Light of the Moon Period".

The 1964 mackerel catch was almost entirely in Southern California waters, with almost no production in the Monterey area. The catch in Monterey Bay has not been substantial since 1959. In previous years, Monterey Bay had large runs of jack mackerel during the summer and fall. The 1964 catch was not materially restricted by small nightly catch limits as in 1963, because these had either been liberalized or removed entirely.

Ocean perch. Landings of ocean perch were 21.0 million pounds in 1964, down 2.6 million pounds or 11 percent from the record high in 1963. This was a sharp reversal for this fishery which had shown such remarkable growth during the past 5 years. The decline occurred entirely in the State of Washington where landings dropped from 15.6 million pounds in 1963 to 11.3 million pounds in 1964. Oregon on the other hand continued its steady gain up 1.7 million pounds over the previous year's total. A scarcity of fish on the usual fishing grounds contributed mostly to the decline.

Sardines. The 1964 catch of Pacific sardines was 13.1 million pounds, almost twice the 1963 catch. The season began on September 1, with great expectations. Over 5.0 million pounds of sardines were taken the first night of the season off San Nicholas Island, and an additional 1.0 million were caught during the following 2 nights. These quick catches were nearly half the year's total, and only small amounts were taken during the remainder of the year. Four canneries operated on Terminal Island and one at Moss Landing, near Monterey. The 1964 catch was about 1 percent of the 1.5 billion pounds taken in 1936, the peak year of this fishery.

Crabs. Landings of crabs along the Pacific coast were 110.0 million pounds valued at $12.2 million. This was 6.2 million pounds more than in the previous year. The catch of king crabs established a new record yielding a catch of 86.7 million pounds--over four and one-half times the catch of 5 years earlier and nearly ten times the production in 1954. The Aleutian Islands area was the area of high production in 1964 with a catch of 33.6 million pounds--twice the 1963 production. The greater catch in this area resulted from an increased number of floating processors, a shifting of vessels to the area because of the loss of processing facilities in Kodiak due to tidal wave damage, and the natural growth of the fishery during the past several years. Despite an earthquake and seismic wave, the Kodiak area was the second highest king crab producer, with a catch of 29.6 million pounds. The Alaska Peninsula area followed with 15.0 million pounds and the Cook Inlet area with 6.9 million pounds. The remainder was distributed between Chigmik, Prince William Sound, and Southeastern Alaska.

The Good Friday earthquake cost the Alaska king crab fishery a considerable production. Only by moving in floating equipment was the industry able to process the increased catch.

Of considerable importance to the crab industry was the signing on December 14th of an agreement between the United States and the Soviet Union designed to minimize damage to the fishing gear of U.S. crab fishermen in the Kodiak Island area of Alaska by Soviet trawlers operating in the area. The treaty provides for the establishment of a number of areas in the vicinity of Kodiak Island in which mobile gear will not operate during July-October, inclusive, and establishes procedures for amending, by mutual agreement between the Chief of the Soviet fishing fleet and local United States fishery officials, the boundaries of these areas or the period during which they are reserved for fixed gear. It also provides for establishing other new areas by mutual agreement.

In addition, the agreement establishes a system of direct radio communication between the Soviet fleet and fishery officials in Alaska. This system can be used for reporting to the Soviet fleet the positions of the United States king crab vessels outside of the areas mentioned above, so that special precautionary measures can be taken to avoid damage to the crab gear. Under the provisions of the agreement, the United States will undertake special research in cooperation with the Soviet Union to develop more effective means of marking and detecting fixed gear of various types.

The 1964 catch of Dungeness crabs in the Pacific Coast States was 23.0 million pounds, valued at $4.0 million--a decline of 1.8 million pounds and $314,000 compared with the previous year.

Landings of Dungeness crabs in Alaska were 12.7 million pounds, topping the 1963 record catch by 600,000 pounds. Southeastern Alaska led with 4.6 million pounds, followed by the Kodiak area with 4.3 million pounds, and 3.4 million pounds in the Prince William Sound--Copper and Bering Rivers area. The Alaska Dungeness crab resource has been harvested with increasing intensity in the past few years because these crabs have been scarce in Washington, Oregon, and California.

Dungeness crab production declined in both Washington and Oregon. The Washington catch of 5.2 million pounds was down 23 percent from 1963, whereas crab production in Oregon was only 3.4 million--down 19 percent from the previous year and the lowest in nearly 30 years. Crab production in Puget Sound continued at the relatively high level it has maintained for the past 5 years, totaling 1.6 million pounds; landings on the coast continued to decline. With the shortage came higher prices, which reached 30 cents a pound at Oregon coastal points. The 1964 average in Oregon was 24 cents per pound--up 3 cents from the previous year.

Dungeness crab production in California (1.8 million pounds) was slightly less than in the previous year, and far below the high 1956-60 average of 16.6 million pounds.

Shrimp. The 1964 catch of shrimp in the Pacific Coast States was only 14.5 million pounds, 6.8 million pounds less than in 1963. The Alaska catch declined from 15.1 million pounds in 1963 to 7.7 million pounds. The cause of the decline seemed connected with the loss of markets and processing facilities rather than a scarcity of shrimp. In Washington, the catch declined from 1.0 million pounds in 1963 to only 384,000 pounds. Only three vessels landed shrimp at Washington ports during 1964. Shrimp seemed to have disappeared almost completely from the coastal waters of Washington but were somewhat more abundant in Oregon where the catch was 5.3 million pounds--up 2.3 million pounds from the previous year. Except for a small canned pack at Warrenton, all the Oregon shrimp were cooked and hand peeled for the fresh and frozen market. Most of the California pack was handled similarly.

Despite the reduced catch in 1964, the Pacific coast shrimp industry in the past 5 years has progressed rapidly in improving production and processing of this popular seafood item.

Oysters. Oyster production in the Pacific Coast States in 1964--10.0 million pounds valued at $2.6 million--was up 2 percent in volume and 7 percent in value compared with the previous year. Pacific oyster production showed a slight gain in Washington with 8.3 million pounds of oyster meats, compared with 8.1 million pounds in 1963. This was considerably better than had been expected because Pacific oysters have had their share of troubles. Late in 1962 a wind storm did extensive damage to some oyster beds. Then it was discovered by scientists that 3-year-old oysters were dying from an unknown cause. In addition the cost of Japanese oyster seed has been rising and the beds have had no natural set of importance since 1958. Another serious blow came in the form of a tidal wave that followed the Alaska earthquake of March 27. Finally, pollution, particularly from pulp mills, has continued to be a threat to the industry.

The fresh and frozen market for Pacific oysters was strong, so canning of both stew and oysters was curtailed. The Washington pack of stew was 114,500 cases, whereas the pack of Washington and Oregon canned oysters was 62,354 cases--down 32 and 16 percent respectively from 1963. The Oregon oyster production, adversely affected by the tidal wave and flood silting, yielded 335,000 pounds of meats--13 percent less than in the previous year. Prices for both canned and fresh Pacific oysters increased in 1964. Western (Olympia) oyster production increased slightly to 34,000 pounds of meats compared with 31,000 pounds in 1963; whereas prices returned to a more normal level averaging about $23.00 per gallon wholesale, compared with about $28.00 in 1963. California oyster production (1.4 million pounds) increased slightly over the previous year. All oysters produced in California were marketed fresh or frozen.

Clams. The Pacific coast clam production declined from 784,000 pounds in 1963 to 589,000 pounds in 1964 as a result of the Alaska earthquake and dwindling supplies. Higher prices caused increased competition from imported clams. The Alaska earthquake not only destroyed one of the largest canneries in Alaska, but did severe damage to the clam beds. Many of the productive beds in the Copper River and Prince William Sound areas were left high and dry, and only time will tell whether clams survived on nearby areas.

Washington razor clam production dropped to the lowest level in nearly 15 years with a commercial take of only 167,000 pounds of clam meats. Shortly after the season opened, the Copalis Beach area was heavily polluted with oil from a stranded oil barge and all digging was suspended. Although a heavy clam mortality was expected, it was subsequently found that little damage was done to razor clams, and sport diggers had a very good season after the beaches were reopened. Most of the commercial razor clam catch was taken by Indians from the reservation beaches and was rather insignificant by comparison with the personal use catch which may have exceeded it by as much as 10 times. Hard shell clam production, chiefly little neck and manila clams from Puget Sound clam farms, was down slightly from the 386,000 pounds taken in the previous year.

Whaling. During the 1964 whaling season, the Del Monte Fishing Company and the Golden Gate Fishing Company operated their two shore stations on Point San Pablo, Calif. and Bioproducts, Inc., operated one plant at Warrenton, Oreg. As in previous years, Del Monte used the catcher boats Allen Cody, Dennis Gayle, and Donna Mae, and Golden Gate used the Lynnann and Sioux City, and Bioproducts used the Tom and Al. The whaling season remained the same as in previous years--April 1 to November 30, inclusive, for sperm whales and April 16 to October 15, inclusive, for other whales.

In 1964, 274 whales were caught--15 more than in the previous year. The season was marked by a large influx of fin whales into the area off San Francisco--apparently because of an abundance of krill (Euphausia pacifica), their preferred food. As a result of their unusually long stay in these waters, 147 whales were taken--126 more than in 1963 and the largest catch of fin whales in 25 years. In 1964, the usual autumn passage of a few blue whales off the coast did not occur, despite an abundance of food.

In addition to the species regularly taken, 20 gray whales were captured for research purposes by the California stations under a special permit issued to the Director of the Bureau's Marine Mammal Biological Laboratory.

The Scientific Committee of the International Whaling Commission, through its North Pacific Working Group, continued studies aimed at formulating rational management plans for North Pacific whale stocks. Scientists of the United States, Canada, Japan, and the Union of Soviet Socialist Republics cooperated in these studies.

Foreign Fishing Activities. The North Pacific Ocean, Gulf of Alaska, and the Bering Sea are areas of increasing Soviet and Japanese fishing effort. During 1964, for example, the Food and Agriculture Organization of the United Nations reported 10.6 billion pounds (live weight basis) taken north of lat. 40° N. in the North Pacific and Bering Sea. Of that amount, the United States took less than 750,000,000 pounds or less than one-tenth of the total take.

The 1964 figures reflect the 5th consecutive year of increased activity by the Soviet fleet. About 490 Soviet vessels, some of them the world's most modern and efficient craft, operated in the waters off the coast of Alaska--over 100 more than in the previous year. This expansion, which began in earnest in 1959 in the Bering Sea, extended into the Gulf of Alaska, as far as the Southeastern coast of Alaska. Some of the increase may have been the result of a decline in the herring catch in the Barents Sea and a movement of vessels to central Bering Sea, where exploratory work by the Soviets had pinpointed new and unexploited stocks of herring. This fishery which began in 1959 has increased in intensity each year.

In 1964, the Japanese operated about 700 vessels in the North Pacific and Bering Sea in waters off the Alaska coast. Certain readjustments in the Japanese fleet and the shifting of emphasis undoubtedly had little effect on the effort expended in the area. More emphasis was placed on the production of fish meal, and the number of factory ships operating in shrimp, groundfish, and halibut fisheries were reduced. Fish meal production increased considerably as a result of the shift.

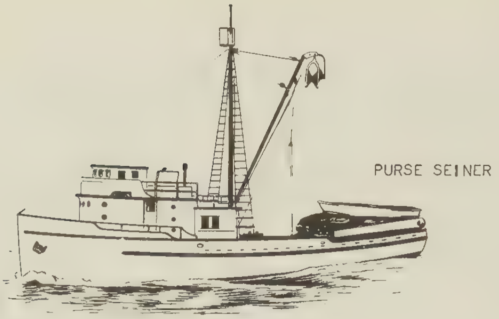
The Japanese fleet consisted of about 24 shrimp vessels, 119 fish meal, 95 groundfish, 16 halibut and sablefish, 14 crab, 4 ocean perch, 34 whaling, and 380 salmon vessels.

While the U.S. catch was stablized in the area, the foreign vessels continued to expand their harvesting operations.

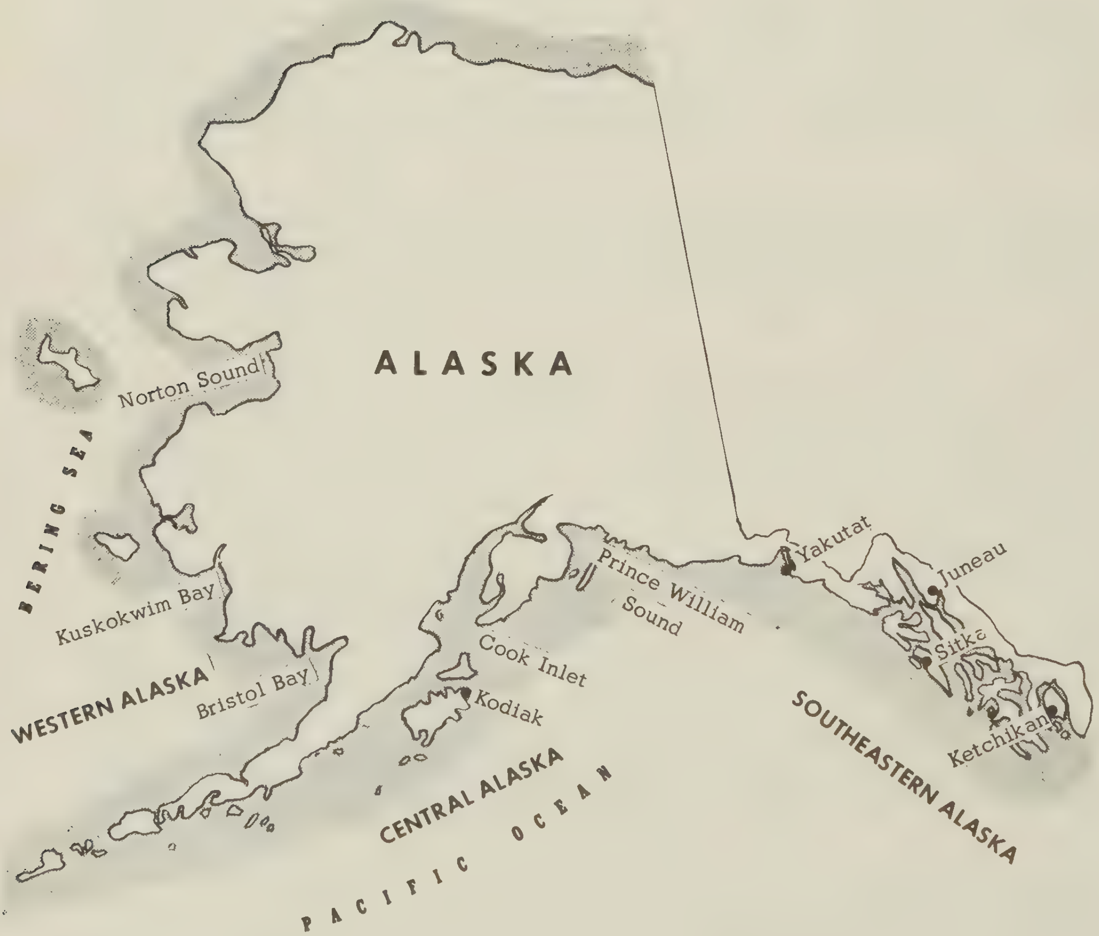
Further Information. Condensed summary data on the operating units and catch by States for the Pacific Coast Fisheries appearing on the following pages have been previously published in Current Fishery Statistics No. 4002. Additional data on many aspects of the Pacific Coast Fisheries appear in daily, monthly, and annual reports published by the Bureau's Fishery Market News Service offices in San Pedro, Calif., and Seattle, Wash. Specific data on several of the major fisheries of the Pacific coast may be found in Section 12 of this publication.

Acknowledgments. The following organizations assisted the Bureau to collect the data appearing in this section: Alaska Department of Fish and Game, Washington Department of Fisheries, Oregon Fish Commission, and California Department of Fish and Game.

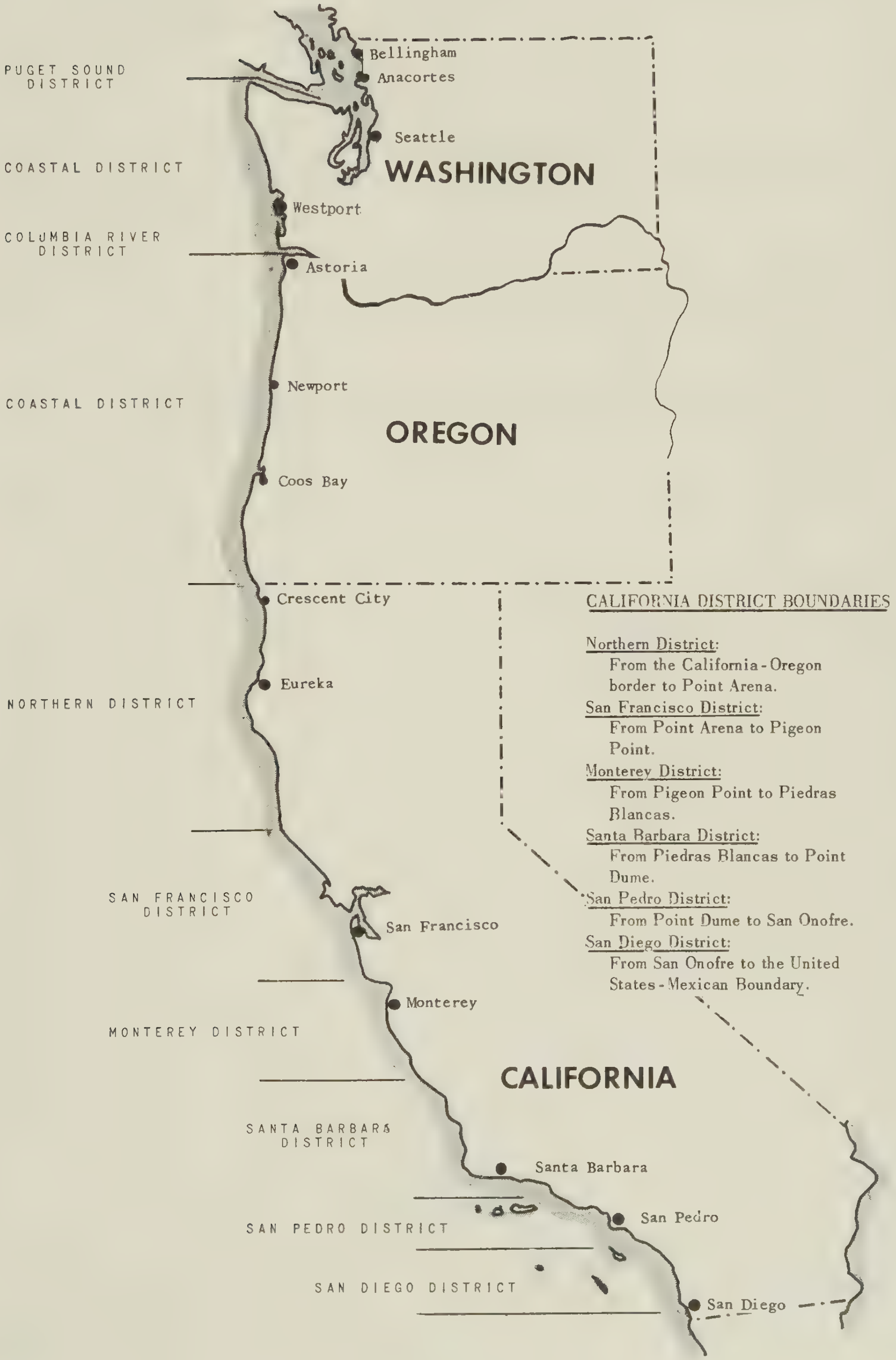
PACIFIC COAST FISHERIES


PURSE SEINER

PACIFIC COAST STATES


ALASKA
Norton Sound
BERING SEA
Kuskokwim Bay
WESTERN ALASKA
Bristol Bay
Cook Inlet
Kodiak
CENTRAL ALASKA
PACIFIC OCEAN
Prince William Sound
Yakutat
Juneau
Sitka
Ketchikan
SOUTHEASTERN ALASKA

PACIFIC COAST STATES - Continued


PUGET SOUND DISTRICT
Bellingham
Anacortes
Seattle
WASHINGTON
COASTAL DISTRICT
Westport
COLUMBIA RIVER DISTRICT
Astoria
Newport
COASTAL DISTRICT
OREGON
Coos Bay
Crescent City
Eureka
NORTHERN DISTRICT
SAN FRANCISCO DISTRICT
San Francisco
Monterey
MONTEREY DISTRICT
CALIFORNIA
SANTA BARBARA DISTRICT
Santa Barbara
San Pedro
SAN PEDRO DISTRICT
SAN DIEGO DISTRICT
San Diego

CALIFORNIA DISTRICT BOUNDARIES

Northern District:
From the California-Oregon border to Point Arena.
San Francisco District:
From Point Arena to Pigeon Point.
Monterey District:
From Pigeon Point to Piedras Blancas.
Santa Barbara District:
From Piedras Blancas to Point Dume.
San Pedro District:
From Point Dume to San Onofre.
San Diego District:
From San Onofre to the United States-Mexican Boundary.

PACIFIC COAST FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF CATCH, 1964

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

STATE	FISH		SHELLFISH, ETC.	
	QUANTITY	VALUE	QUANTITY	VALUE
ALASKA	385	46	108	10
WASHINGTON	87	11	14	4
OREGON	48	6	9	1
CALIFORNIA	468	48	22	2
TOTAL	988	111	153	17

STATE	WHALE PRODUCTS		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE
ALASKA	-	-	493	56
WASHINGTON	-	-	101	15
OREGON	(1)	(1)	57	7
CALIFORNIA	11	1	501	51
TOTAL	11	1	1,152	129

1/ LESS THAN 500,000 POUNDS OR $500,000.

SUMMARY OF OPERATING UNITS, 1964

ITEM	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	8,036	3,646	1,339	5,245	15,767
ON BOATS AND SHORE	9,100	4,082	1,247	2,903	17,332
TOTAL	17,136	7,728	2,586	8,148	33,099
VESSELS, MOTOR	2,030	1,250	623	1,508	4,567
GROSS TONNAGE	49,295	29,010	13,743	73,142	141,188
BOATS:					
MOTOR	8,240	2,327	963	1,869	13,278
OTHER	-	248	19	-	267
GEAR:					
HAUL SEINES	-	110	4	5	119
LENGTH, YARDS	-	8,635	400	1,100	10,135
PURSE SEINES AND LAMPARA NETS:					
ANCHOVY	-	-	-	24	24
LENGTH, YARDS	-	-	-	8,550	8,550
HERRING	19	4	-	-	19
LENGTH, YARDS	9,000	1,700	-	-	9,100
MACKEREL AND SARDINE	-	-	-	84	84
LENGTH, YARDS	-	-	-	40,550	40,550
SALMON	1,340	214	-	-	1,439
LENGTH, YARDS	576,000	114,320	-	-	633,920
SQUID	-	-	-	21	21
LENGTH, YARDS	-	-	-	6,500	6,500
TUNA	-	-	-	105	105
LENGTH, YARDS	-	-	-	80,580	80,580
OTHER	-	-	-	12	12
LENGTH, YARDS	-	-	-	3,750	3,750
BEAM TRAWLS:					
FISH	1	-	-	-	1
YARDS AT MOUTH	11	-	-	-	11
SHRIMP	15	4	-	-	19
YARDS AT MOUTH	168	31	-	-	199
OTTER TRAWLS:					
FISH	2	109	54	72	225
YARDS AT MOUTH	30	2,403	1,215	1,909	5,297
SHRIMP	7	3	28	9	40
YARDS AT MOUTH	105	57	532	132	718
BRUSH WEIRS	-	1	-	-	1
POUND NETS	2	2	-	-	4
FLOATING TRAPS	4	-	-	-	4
POTS AND TRAPS:					
CRAB:					
DUNGENESS	22,500	24,215	31,051	24,770	90,819
KING	22,000	-	-	-	22,000
TANNER	10	-	-	-	10
CRAWFISH	-	-	275	-	275
FISH	-	-	-	50	50
LOBSTER, SPINY	-	-	-	13,015	13,015
OCTOPUS	-	150	-	80	230
SHRIMP	70	250	-	-	250

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1964 - Continued

ITEM	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
GEAR - CONTINUED:					
GILL NETS:					
ANCHOR SET OR STAKE:					
SALMON	2,483	324	75	-	2,882
SQUARE YARDS	1,831,000	78,500	22,500	-	1,932,000
SHARK	-	2	118	-	120
SQUARE YARDS	-	2,000	30,000	-	32,000
DRIFT:					
BARRACUDA	-	-	-	11	11
SQUARE YARDS	-	-	-	34,600	34,600
SALMON	3,388	1,153	399	-	4,888
SQUARE YARDS	4,298,000	5,731,250	1,217,000	-	11,122,250
SEA BASS	-	-	-	51	51
SQUARE YARDS	-	-	-	144,200	144,200
SMELT	-	30	40	-	70
SQUARE YARDS	-	27,000	36,000	-	63,000
OTHER	-	-	45	22	67
SQUARE YARDS	-	-	90,000	61,600	151,600
TRAMMEL NETS	-	-	-	31	31
SQUARE YARDS	-	-	-	168,500	168,500
LINES:					
HAND:					
ROCKFISHES	-	44	-	301	345
HOOKS	-	88	-	602	690
TUNA:					
ALBACORE	-	-	-	763	763
HOOKS	-	-	-	763	763
YELLOWFIN AND SKIPJACK	-	-	-	264	264
HOOKS	-	-	-	264	264
OTHER	-	-	-	444	444
HOOKS	-	-	-	888	888
TROLL:					
ALBACORE	-	866	2,446	7,128	10,236
HOOKS	-	866	2,446	7,128	10,236
SALMON	4,832	5,900	4,000	10,524	23,456
HOOKS	29,000	26,050	18,300	42,096	107,442
OTHER	-	84	2	747	831
HOOKS	-	168	4	747	915
LONG OR SET WITH HOOKS	7,200	3,813	154	366	8,670
HOOKS	640,000	350,395	14,660	36,600	779,695
DIP, BRAIL OR SCOOP NETS	-	174	-	85	259
REEF NETS	-	63	-	-	63
WHEELS	6	-	-	-	6
HARPOONS:					
WHALE	-	-	1	5	6
OTHER	-	-	-	10	10
DREDGES:					
CLAM	-	4	-	-	4
YARDS AT MOUTH	-	4	-	-	4
OYSTER:					
COMMON	-	70	4	4	78
YARDS AT MOUTH	-	140	8	4	152
SUCTION	-	2	-	1	3
TONGS, OYSTER	-	-	-	39	39
SHOVELS	108	811	125	6	1,050
DIVING OUTFITS, ABALONE	2	-	-	148	150

CATCH BY STATES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	ALASKA		WASHINGTON		OREGON	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CARP	-	-	947	5	-	-
COD	-	-	6,213	341	201	10
DOLLY VARDEN TROUT	6	1	-	-	-	-
FLOUNDERS:						
"SOLE"	-	-	10,517	753	14,777	843
UNCLASSIFIED	-	-	809	41	645	29
HAKE	-	-	716	11	50	1
HALIBUT	22,758	3,573	12,149	2,324	137	25
HERRING, SEA	47,904	719	3,960	130	33	10
LAKE TROUT	4	1	-	-	-	-
LINGCOD	-	-	3,606	189	787	40
NORTHERN PIKE	(2)	(2)	-	-	-	-
OCEAN PERCH	-	-	11,254	574	9,719	425
PERCH	-	-	130	14	1	(2)
RATFISH	-	-	1,374	9	-	-
ROCKFISHES	92	5	5,926	294	5,179	214
SABLEFISH	2,587	290	2,610	384	408	40
SALMON:						
CHINOOK OR KING	11,567	3,662	5,616	2,085	3,987	1.376
CHUM OR KETA	62,690	4,694	3,138	540	14	1
PINK	162,280	17,174	45	8	(2)	(2)
RED OR SOCKEYE	54,132	12,247	3,094	1,162	50	18
SILVER OR COHO	20,954	3,582	9,382	2,736	5,816	1,660
TOTAL SALMON	311,623	41,359	21,275	6,531	9,867	3,055
SEA BASS, WHITE	-	-	-	-	9	(2)
SHAD	-	-	34	2	784	59
SHARKS:						
GRAYFISH	-	-	1,837	9	-	-
SOUPFIN	-	-	1	(2)	1	(2)
UNCLASSIFIED	-	-	2	(2)	-	-
TOTAL SHARKS	-	-	1,840	9	1	(2)
SHEEFISH	1	(2)	-	-	-	-
SKATES	-	-	564	3	230	6
SMELT:						
EULACHON	-	-	517	53	326	44
SURF OR SILVER	-	-	375	30	3	(2)
STEELHEAD TROUT	10	2	68	22	361	99
STRIPED BASS	-	-	-	-	46	7
STURGEON	-	-	203	17	160	13
SUCKERS	-	-	14	(2)	-	-
TOMCOD	-	-	388	7	-	-
TUNA, ALBACORE	-	-	1,055	170	4,455	716
WHITEFISH	17	3	-	-	-	-
TOTAL FISH	385,002	45,953	86,544	11,913	48,179	5,636
SHELLFISH, ETC.						
CRABS:						
DUNGENESS	12,708	1,466	5,163	1,092	3,357	817
KING	86,721	8,186	-	-	-	-
TANNER	14	1	-	-	-	-
TOTAL CRABS	99,443	9,653	5,163	1,092	3,357	817
CRAWFISH, FRESH-WATER	-	-	-	-	11	3
SHRIMP	7,727	309	384	57	5,280	449
ABALONE	1	1	-	-	-	-
CLAMS:						
HARD	-	-	351	169	-	-
RAZOR	42	20	167	111	15	9
MIXED	-	-	-	-	13	8
TOTAL CLAMS	42	20	518	280	28	17
OCTOPUS	-	-	36	5	-	-
OYSTERS, MARKET:						
PACIFIC	-	-	8,244	2,187	335	106
WESTERN	-	-	34	98	-	-
TOTAL OYSTERS	-	-	8,278	2,285	335	106

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	ALASKA		WASHINGTON		OREGON	
SHELLFISH, ETC. - CONTINUED	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
SQUID	-	-	1	(2)	-	-
KELP (WITH HERRING EGGS)	399	80	-	-	-	-
TOTAL SHELLFISH	107,612	10,063	14,380	3,719	9,011	1,392
WHALE PRODUCTS:						
MEAL	-	-	-	-	4	(2)
MEAT	-	-	-	-	7	1
OIL, SPERM	-	-	-	-	5	1
TOTAL WHALE PRODUCTS	-	-	-	-	16	2
GRAND TOTAL	492,614	56,016	100,924	15,632	57,206	7,030

SPECIES	CALIFORNIA 1/		TOTAL	
FISH	QUANTITY	VALUE	QUANTITY	VALUE
ANCHOVIES	4,975	82	4,975	82
BARRACUDA	334	55	334	55
BONITO	2,612	66	2,612	66
CABEZONE	5	(2)	5	(2)
CABRILLA	14	2	14	2
CARP	195	12	1,142	17
COD	-	-	6,414	351
DOLLY VARDEN TROUT	-	-	6	1
FLOUNDERS:				
ARROWTOOTH HALIBUT	10	(2)	10	(2)
CALIFORNIA HALIBUT	3/1,276	3/289	1,276	289
SAND DABS	590	44	590	44
"SOLE"	18,350	1,378	43,644	2,974
UNCLASSIFIED	3/ 421	3/ 25	1,875	95
FLYING FISH	86	11	86	11
GROUPERS	164	37	164	37
HAKE	112	2	878	14
HALFMOON	10	2	10	2
HALIBUT	3	1	35,047	5,923
HARDHEAD	157	42	157	42
HERRING, SEA	349	32	52,246	891
KING CROAKER	839	39	839	39
LAKE TROUT	-	-	4	1
LINGCOD	836	65	5,229	294
MACKEREL:				
JACK	89,693	2,109	89,693	2,109
PACIFIC	26,828	666	26,828	666
NORTHERN PIKE	-	-	(2)	(2)
OCEAN PERCH	-	-	20,973	999
OPALEYE	2	(2)	2	(2)
PERCH	133	20	264	34
POMPANO	121	33	121	33
RATFISH	-	-	1,374	9
ROCKFISHES	8,118	490	19,315	1,003
SABLEFISH	2,463	163	8,068	877
SALMON:				
CHINOOK OR KING	7,562	4,332	28,732	11,455
CHUM OR KETA	-	-	65,842	5,235
PINK	-	-	162,325	17,182
RED OR SOCKEYE	-	-	57,276	13,427
SILVER OR COHO	1,919	681	38,071	8,659
TOTAL SALMON	9,481	5,013	352,246	55,958
SARDINE, PACIFIC	13,138	500	13,138	500
SCULPIN	94	27	94	27
SEA BASS:				
BLACK	223	36	223	36
WHITE	1,391	309	1,400	309
SHAD	-	-	818	61
SHARKS:				
GRAYFISH	-	-	1,837	9
SOUPFIN	-	-	2	(2)
UNCLASSIFIED	647	63	649	63
TOTAL SHARKS	647	63	2,488	72
SHEEFISH	-	-	1	(2)
SHEEPSHEAD	18	1	18	1
SKATES	223	3	1,017	12

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	CALIFORNIA 1/		TOTAL	
FISH - CONTINUED	QUANTITY	VALUE	QUANTITY	VALUE
SMELT:				
EULACHON.	-	-	843	97
SURF OR SILVER.	414	28	792	58
STEELHEAD TROUT	-	-	439	123
STRIPED BASS.	-	-	46	7
STURGEON.	-	-	363	30
SUCKERS	-	-	14	(2)
SWORDFISH	183	103	183	103
TOMCOD.	-	-	388	7
TUNA:				
ALBACORE.	42,551	6,580	48,061	7,466
BLUEFIN	23,171	2,827	23,171	2,827
SKIPJACK.	66,059	6,624	66,059	6,624
YELLOWFIN	149,020	19,849	149,020	19,849
TOTAL TUNA	280,801	35,880	286,311	36,766
TURBOT.	93	5	93	5
WAHOO	4	1	4	1
WHITEBAIT	191	15	191	15
WHITEFISH	-	-	17	3
YELLOWTAIL.	110	12	110	12
UNCLASSIFIED:				
FOR FOOD.	148	3	148	3
BAIT AND ANIMAL FOOD . .	1,738	35	1,738	35
TOTAL FISH	467,593	47,699	987,318	111,201
SHELLFISH, ETC.				
CRABS:				
DUNGENESS	1,815	617	23,043	3,992
KING.	-	-	86,721	8,186
ROCK.	264	25	264	25
TANNER.	-	-	14	1
TOTAL CRABS.	2,079	642	110,042	12,204
CRAWFISH, FRESH-WATER . . .	-	-	11	3
LOBSTER, SPINY.	447	309	447	309
SHRIMP.	1,106	114	14,497	929
ABALONE	816	573	817	574
CLAMS:				
HARD.	1	1	352	170
RAZOR	-	-	224	140
MIXED	-	-	13	8
TOTAL CLAMS.	1	1	589	318
OCTOPUS	39	2	75	7
OYSTERS, MARKET:				
EASTERN	5	10	5	10
PACIFIC	1,355	244	9,934	2,537
WESTERN	-	-	34	98
TOTAL OYSTERS.	1,360	254	9,973	2,645
SQUID	16,434	333	16,435	333
MOLLUSKS, UNCLASSIFIED. . .	(2)	(2)	(2)	(2)
KELP (WITH HERRING EGGS). .	-	-	399	80
TOTAL SHELLFISH, ETC .	22,282	2,228	153,285	17,402
WHALE PRODUCTS:				
MEAL.	3,324	155	3,328	155
MEAT.	4,514	382	4,521	383
OIL:				
SPERM.	396	25	401	26
WHALE.	2,759	170	2,759	170
TOTAL WHALE PRODUCTS .	10,993	732	11,009	734
GRAND TOTAL.	500,868	50,659	1,151,612	129,337

1/ INCLUDES THE CATCH TAKEN OFF LATIN AMERICA AND LANDED AT CALIFORNIA PORTS.
2/ LESS THAN 500 POUNDS OR $500.
3/ SOME HALIBUT MAY BE INCLUDED WITH "CALIFORNIA HALIBUT" AND "UNCLASSIFIED FLOUNDERS".
NOTE:--DATA ON THE VOLUME OF FISH LANDED IN ALASKA, WASHINGTON, AND OREGON ARE IN ROUND WEIGHT, WHILE THOSE FOR CALIFORNIA ARE SHOWN IN WEIGHTS AS LANDED, EXCEPT FOR SHELL MOLLUSKS. IN ALL STATES, CLAMS AND OYSTERS ARE REPORTED IN WEIGHT OF TOTAL MEATS; ABALONE, IN WEIGHT OF EDIBLE MEAT. ALASKA DATA INCLUDE THE CATCH OF HALIBUT, SABLEFISH, AND ROCKFISHES LANDED BY U. S. VESSELS AT BRITISH COLUMBIA PORTS.

MANUFACTURED FISHERY PRODUCTS, 1964

ITEM		ALASKA		WASHINGTON	
		QUANTITY	VALUE	QUANTITY	VALUE
COD:					
FILLETS:					
FRESH	POUNDS	-	-	1,246,211	$285,855
FROZEN	DO	-	-	555,688	130,661
SALTED	DO	-	-	(1)	(1)
LUTEFISK	DO	-	-	(1)	(1)
FLOUNDERS, FILLETS, FRESH AND FROZEN	DO	-	-	2,819,088	1,079,767
HALIBUT:					
FILLETS, FRESH AND FROZEN	DO	211,700	$137,710	1,316,807	625,322
FROZEN:					
STEAKS	DO	-	-	5,643,465	2,637,242
CHEEKS	DO	30,000	19,800	-	-
CANNED, SMOKED	STANDARD CASES	7	420	-	-
SMOKED	POUNDS	-	-	404,245	120,722
HERRING, SEA:					
SALTED EGGS (WITH KELP)	DO	274,800	164,200	-	-
MEAL AND SCRAP	TONS	3,636	497,400	(3)	(3)
OIL	THOUSAND POUNDS	7,893	581,600	(3)	(3)
LINGCOD FILLETS, FRESH AND FROZEN	POUNDS	-	-	973,204	229,116
OCEAN PERCH FILLETS, FRESH AND FROZEN	DO	-	-	3,148,534	734,439
ROCKFISH FILLETS, FRESH AND FROZEN	DO	-	-	1,739,573	358,913
SABLEFISH:					
FRESH AND FROZEN, STEAKS	DO	-	-	(1)	(1)
SALTED	DO	-	-	123,100	45,010
SMOKED	DO	11,800	3,540	80,543	32,846
SALMON:					
FRESH AND FROZEN:					
FILLETS	DO	-	-	864,500	581,600
STEAKS	DO	-	-	876,943	586,225
CANNED:					
CHINOOK OR KING	STANDARD CASES	37,759	1,260,710	12,913	398,794
CHUM OR KETA	DO	702,869	12,665,610	21,178	359,372
PINK	DO	1,928,231	39,428,970	11,830	269,241
RED OR SOCKEYE	DO	715,660	29,428,080	58,736	2,884,432
SILVER OR COHO	DO	164,860	4,746,660	25,672	844,034
TOTAL CANNED SALMON	DO	3,549,379	87,530,030	130,329	4,755,873
EGGS FOR BAIT	DO	-	-	21,906	2,162,995
SMOKED	DO	647	47,840	1,029	83,002
SPECIALTIES (SALTED LIVERS AND SPREADS)	DO	-	-	(1)	(1)
SALTED:					
MILD-CURED	POUNDS	2,324,400	2,009,520	819,950	619,450
EGGS FOR FOOD AND BAIT	DO	2,399,100	1,136,190	223,906	138,863
SPECIALTIES (CAVIAR AND SALTED BELLIES)	DO	-	-	509,811	510,410
SMOKED	DO	10,200	13,610	668,427	463,782
MEAL AND SCRAP	TONS	-	-	(1)	(1)
OIL	THOUSAND POUNDS	-	-	(1)	(1)
SHAD:					
CANNED, FISH	STANDARD CASES	-	-	(1)	(1)
SMELT, CANNED (SMOKED)	STANDARD CASES	-	-	(1)	(1)
STURGEON:					
CANNED, SMOKED AND SPECIALTIES	DO	-	-	757	40,537
SMOKED	POUNDS	-	-	5,787	5,478
SWORDFISH, STEAKS, FROZEN	DO	-	-	911,446	491,655
TUNA:					
CANNED, ALBACORE	STANDARD CASES	-	-	5/ 523,014	5/5,125,179
TOTAL CANNED TUNA	DO	-	-	5/ 523,014	5/5,125,179
SMOKED	DO	-	-	10	702
SMOKED	POUNDS	-	-	(1)	(1)
CRABS:					
DUNGENESS:					
FRESH AND FROZEN:					
COOKED MEAT	DO	2,448,500	1,735,330	963,182	1,354,681
SECTIONS	DO	2,701,300	1,291,950	-	-
CANNED:					
MEAT	STANDARD CASES	15,498	551,680	4,387	127,882
SPECIALTIES (COCKTAILS, SMOKED, ETC.)	DO	-	-	(1)	(1)
MEAL AND SCRAP	TONS	-	-	(1)	(1)

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		ALASKA		WASHINGTON	
		QUANTITY	VALUE	QUANTITY	VALUE
CRABS - CONTINUED:					
KING:					
FRESH AND FROZEN:					
COOKED MEAT.	POUNDS	12,186,200	$12,084,510	(1)	(1)
SECTIONS	DO	6,207,000	3,236,580	-	-
CANNED	STANDARD CASES	235,970	5,941,260	31,090	$872,222
TANNER, WHOLE.	POUNDS	12,800	3,840	-	-
SHRIMP:					
FRESH AND FROZEN:					
RAW HEADLESS	DO	27,000	12,000	-	-
MEAT, RAW AND COOKED	DO	767,200	818,000	-	-
CANNED:					
MEAT	STANDARD CASES	40,504	684,450	(1)	(1)
SPECIALTIES (COCKTAILS). . . .	DO	-	-	(1)	(1)
ABALONE, FROZEN:					
STEAKS, NOT BREADED.	POUNDS	1,100	1,640	-	-
CLAMS:					
HARD (INCLUDING PISMO):					
CANNED:					
WHOLE AND MINCED	STANDARD CASES	-	-	(1)	(1)
CHOWDER AND JUICE	DO	-	-	11,252	52,779
SPECIALTIES (SMOKED AND IN THE SHELL).	DO	-	-	(1)	(1)
RAZOR:					
SHUCKED, FRESH AND FROZEN. . .	GALLONS	4,286	23,120	7,177	68,517
CANNED:					
WHOLE AND MINCED	STANDARD CASES	290	7,370	529	12,848
SMOKED	DO	-	-	(1)	(1)
OYSTERS:					
SHUCKED, FRESH AND FROZEN:					
PACIFIC.	GALLONS	-	-	831,378	3,228,573
WESTERN.	DO	-	-	3,980	124,915
BREADED, FROZEN.	POUNDS	-	-	(1)	(1)
CANNED:					
MEAT	STANDARD CASES	-	-	62,145	905,877
SMOKED	DO	-	-	307	27,949
SPECIALTIES (STEWS, SOUPS, ETC.)	DO	-	-	114,550	2,110,891
SHELL, GRIT AND LIME	TONS	-	-	236	3,628
UNCLASSIFIED:					
FRESH AND FROZEN PACKAGED FISH:					
STICKS:					
RAW.	POUNDS	-	-	217,973	79,085
COOKED	DO	-	-	(1)	(1)
PORTIONS:					
RAW.	DO	-	-	(1)	(1)
COOKED	DO	-	-	(1)	(1)
FISH AND SHELLFISH	DO	-	-	935,126	499,837
CANNED:					
FISH AND SHELLFISH	STANDARD CASES	-	-	30,818	347,788
ANIMAL FOOD.	DO	-	-	89,987	595,354
CURED.	POUNDS	-	-	67,300	20,975
INDUSTRIAL	-	-	-	-	627,226
MISCELLANEOUS.	-	-	-	-	(6)
TOTAL	-	-	118,503,090	-	32,257,030

ITEM		OREGON		CALIFORNIA	
		QUANTITY	VALUE	QUANTITY	VALUE
ANCHOVIES:					
CANNED	STANDARD CASES	-	-	(1)	(1)
OIL.	THOUSAND POUNDS	-	-	(1)	(1)
BARRACUDA:					
FILLETS, FRESH	POUNDS	-	-	(1)	(1)
SMOKED	DO	-	-	9,041	$7,207
BUTTERFISH, SMOKED	DO	-	-	(1)	(1)
CARP, SMOKED	DO	-	-	(1)	(1)
COD:					
FILLETS:					
FRESH.	DO	17,994	$4,087	-	-
FROZEN	DO	6,093	1,503	-	-
SPECIALTIES, FROZEN.	DO	-	-	(1)	(1)
SALTED	DO	-	-	(1)	(1)
SMOKED	DO	-	-	(1)	(1)

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		OREGON		CALIFORNIA	
		QUANTITY	VALUE	QUANTITY	VALUE
FLOUNDERS:					
FILLETS, FRESH AND FROZEN	POUNDS	3,133,065	$1,224,632	4,550,360	$1,710,290
DRIED	DO	-	-	(1)	(1)
HAKE FILLETS, FROZEN	DO	-	-	(1)	(1)
HALIBUT:					
FILLETS, FRESH AND FROZEN	DO	-	-	(2)	(2)
FROZEN:					
STEAKS	DO	(2)	(2)	1,716,557	854,842
SPECIALTIES (FISH AND CHIPS, ETC.)	DO	-	-	(1)	(1)
SMOKED	POUNDS	-	-	49,325	27,838
HERRING, SEA, SMOKED	DO	(1)	(1)	-	-
LINGCOD FILLETS, FRESH AND FROZEN	DO	275,609	73,268	202,000	48,500
MACKEREL:					
CANNED:					
JACK	STANDARD CASES	-	-	820,554	5,224,856
PACIFIC	DO	-	-	250,269	1,535,184
SMOKED	POUNDS	-	-	1,025	924
MARLIN, SMOKED	DO	-	-	(1)	(1)
OCEAN PERCH FILLETS, FRESH AND FROZEN	DO	2,384,931	548,678	(2)	(2)
ROCKFISH:					
FILLETS, FRESH AND FROZEN	DO	1,715,768	369,363	715,000	189,770
SMOKED	DO	-	-	(1)	(1)
SABLEFISH:					
FRESH AND FROZEN:					
FILLETS	DO	-	-	(1)	(1)
STEAKS	DO	(1)	(1)	-	-
SMOKED	DO	(1)	(1)	232,791	165,364
SALMON:					
FRESH AND FROZEN STEAKS	DO	(2)	(2)	180,817	133,581
CANNED:					
CHINOOK OR KING	STANDARD CASES	45,132	2,036,207	(4)	(4)
CHUM OR KETA	DO	412	7,652	-	-
RED OR SOCKEYE	DO	2,498	161,701	-	-
SILVER OR COHO	DO	28,534	1,138,192	-	-
STEELHEAD	DO	2,914	131,062	-	-
TOTAL CANNED SALMON	DO	79,490	3,474,814	(4)	(4)
SMOKED	DO	164	16,278	(2)	(2)
SALTED, MILD-CURED	POUNDS	-	-	2,013,530	1,890,630
SMOKED	DO	(1)	(1)	1,101,722	1,508,546
OIL	THOUSAND POUNDS	386	34,955	-	-
SARDINES, PACIFIC:					
CANNED	STANDARD CASES	-	-	120,850	1,029,903
SALTED	POUNDS	-	-	(1)	(1)
MEAL	TONS	-	-	(1)	(1)
OIL	THOUSAND POUNDS	-	-	(1)	(1)
SEA BASS:					
FILLETS, FROZEN	POUNDS	-	-	175,219	81,731
SMOKED	DO	-	-	(1)	(1)
SHAD:					
CANNED:					
FISH	STANDARD CASES	(1)	(1)	-	-
ROE	DO	(1)	(1)	(1)	(1)
SMOKED	POUNDS	-	-	(1)	(1)
SMELT:					
SMOKED	DO	(1)	(1)	-	-
DRIED	DO	-	-	(1)	(1)
STURGEON:					
CANNED, SMOKED AND SPECIALTIES	STANDARD CASES	283	21,118	-	-
SMOKED	POUNDS	(1)	(1)	(1)	(1)
SWORDFISH:					
STEAKS, FROZEN	DO	-	-	(2)	(2)
SMOKED	DO	-	-	13,454	10,925
TUNA:					
CANNED:					
ALBACORE	STANDARD CASES	5/ 980,269	5/14,294,405	1,978,399	24,846,825
LIGHT MEAT	DO	-	-	7,167,591	85,517,463
TONNO	DO	-	-	146,639	1,990,853
TOTAL CANNED TUNA	DO	5/ 980,269	5/14,294,405	9,292,629	112,355,141

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		OREGON		CALIFORNIA	
		QUANTITY	VALUE	QUANTITY	VALUE
TUNA - CONTINUED:					
CANNED - CONTINUED:					
SPECIALTIES (WITH NOODLES AND CREAMED).	STANDARD CASES	-	-	44,831	$820,884
SMOKED	DO	(1)	(1)	-	-
SMOKED	POUNDS	(1)	(1)	29,926	30,577
TUNALIKE FISH (BONITO AND YELLOWTAIL):					
FILLETS, FRESH AND FROZEN. . . .	DO	-	-	(1)	(1)
CANNED	STANDARD CASES	-	-	24,674	177,062
SMOKED	POUNDS	-	-	21,728	17,884
WAHOO, SMOKED.	DO	-	-	(1)	(1)
WHITEFISH, SMOKED.	DO	-	-	(1)	(1)
WHITING, SMOKED.	DO	-	-	(1)	(1)
CRABS:					
DUNGENESS:					
FRESH AND FROZEN:					
COOKED MEAT.	DO	459,843	$594,014	460,401	521,828
SPECIALTIES (COCKTAILS AND DIPS)	DO	-	-	(1)	(1)
CANNED, SPECIALTIES (COCKTAILS, SMOKED, ETC.)	STANDARD CASES	(1)	(1)	-	-
KING, CANNED	DO	(2)	(2)	-	-
LOBSTERS, SPINY:					
TAILS, FROZEN.	POUNDS	-	-	(1)	(1)
SPECIALTIES (COCKTAILS).	DO	-	-	(1)	(1)
SHRIMP:					
FRESH AND FROZEN:					
RAW HEADLESS	DO	-	-	(1)	(1)
MEAT, RAW AND COOKED	DO	655,315	736,832	935,201	1,023,932
PEELED AND DEVEINED.	DO	-	-	414,241	403,653
BREADED.	DO	-	-	6,098,370	4,346,093
SPECIALTIES (COCKTAILS AND DIPS)	DO	-	-	(1)	(1)
CANNED:					
MEAT	STANDARD CASES	(1)	(1)	-	-
SPECIALTIES (COCKTAILS). . . .	DO	(1)	(1)	-	-
SMOKED	POUNDS	-	-	(1)	(1)
ABALONE, FROZEN:					
STEAKS:					
NOT BREADED.	DO	-	-	602,891	954,064
BREADED.	DO	-	-	(1)	(1)
SPECIALTIES (PATTIES).	DO	-	-	(1)	(1)
CLAMS, RAZOR:					
SHUCKED, FRESH AND FROZEN. . . .	GALLONS	2,430	17,455	-	-
CANNED:					
WHOLE AND MINCED	STANDARD CASES	332	10,953	-	-
OYSTERS:					
SHUCKED, FRESH AND FROZEN:					
PACIFIC.	GALLONS	142,275	558,402	152,547	579,386
WESTERN.	DO	(1)	(1)	-	-
BREADED, FROZEN.	POUNDS	-	-	52,785	43,141
CANNED:					
MEAT	STANDARD CASES	(1)	(1)	-	-
SPECIALTIES (STEWS, SOUPS, ETC.)	DO	(1)	(1)	-	-
SHELL, GRIT AND LIME	TONS	(1)	(1)	(1)	(1)
SCALLOPS, BREADED, FROZEN.	POUNDS	-	-	486,602	336,625
SQUID, CANNED.	STANDARD CASES	-	-	213,299	855,134
WHALE:					
MEAT, FROZEN (FOR ANIMAL FOOD) .	POUNDS	7,400	518	4,514,366	382,003
MEAL AND SCRAP	TONS	2	187	1,662	155,172
OIL:					
SPERM.	THOUSAND POUNDS	5	460	396	25,224
OTHER.	DO	-	-	2,759	169,926

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		OREGON		CALIFORNIA	
		QUANTITY	VALUE	QUANTITY	VALUE
UNCLASSIFIED:					
FRESH AND FROZEN PACKAGED FISH:					
STICKS:					
RAW.	POUNDS	-	-	603,009	$219,485
COOKED	DO	-	-	6,230,580	2,809,113
PORTIONS:					
RAW.	DO	-	-	599,083	250,422
COOKED	DO	-	-	1,697,563	1,334,332
UNBREADED.	DO	-	-	(1)	(1)
CAKES, COOKED.	DO	-	-	381,739	282,473
FISH AND SHELLFISH	DO	(2)	(2)	1,293,497	923,586
CANNED:					
FISH AND SHELLFISH	STANDARD CASES	6,135	$187,806	(2)	(2)
ANIMAL FOOD.	DO	384,721	2,380,772	1,903,847	15,379,334
CURED.	POUNDS	21,410	27,060	701,902	374,686
INDUSTRIAL	-	-	677,060	-	3,625,443
MISCELLANEOUS.	-	-	(6)	-	10,490,754
TOTAL	-	-	25,487,227	-	173,724,482

1/ INCLUDED WITH UNCLASSIFIED PRODUCTS.
2/ THE PRODUCTION OF CERTAIN ITEMS IN OREGON AND CALIFORNIA HAVE BEEN INCLUDED WITH THE WASHINGTON PRODUCTION.
3/ THE PRODUCTION OF HERRING MEAL AND OIL IN WASHINGTON HAS BEEN INCLUDED WITH ALASKA.
4/ THE PACK OF SALMON IN CALIFORNIA HAS BEEN INCLUDED WITH OREGON.
5/ THE PACK OF LIGHT MEAT TUNA HAS BEEN INCLUDED WITH ALBACORE.
6/ INCLUDED WITH INDUSTRIAL PRODUCTS.

NOTE:--THIS TABLE WILL NOT ADD. INDIVIDUAL STATE TOTALS ARE CORRECT BUT SMALL QUANTITIES PRODUCED IN OREGON AND CALIFORNIA ARE INCLUDED IN THE PRODUCTION FOR WASHINGTON. SOME OF THE ABOVE PRODUCTS MAY HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE CATCH WITHIN THE STATE.

Tuna purse seiner

SUMMARY OF MANUFACTURED PRODUCTS, 1964

(VALUE IN THOUSANDS OF DOLLARS)

ITEM		QUANTITY	VALUE
PACKAGED, FRESH AND FROZEN:			
NOT BREADED:			
FISH	1,000 POUNDS	35,586	13,188
SHELLFISH	DO	39,171	29,730
BREADED:			
FISH	DO	10,124	5,002
SHELLFISH	DO	6,679	4,777
SPECIALTIES	DO	1,287	938
WHALE MEAT (FOR ANIMAL FOOD)	DO	4,522	383
CANNED	1,000 STANDARD CASES	18,987	269,749
CURED	1,000 POUNDS	12,119	9,346
INDUSTRIAL	-	-	16,859
TOTAL	-	-	349,972

VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1964

(THOUSANDS OF DOLLARS)

ITEM	VALUE
ALASKA	118,503
WASHINGTON	32,257
OREGON	25,487
CALIFORNIA	173,725
TOTAL	349,972

WHOLESALING AND MANUFACTURING, 1964

ITEM	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING:					
ESTABLISHMENTS	173	179	60	188	600
PERSONS ENGAGED:					
AVERAGE FOR SEASON	7,648	4,160	2,257	9,411	23,476
AVERAGE FOR YEAR	2,500	2,107	1,540	7,126	13,273

ALASKA FISHERIES

CATCH BY REGIONS, 1964

SPECIES	SOUTHEASTERN ALASKA		CENTRAL ALASKA	
FISH	POUNDS	VALUE	POUNDS	VALUE
HALIBUT 1/	18,327,400	$2,930,950	4,430,200	$641,980
HERRING	46,698,400	700,480	1,205,500	18,080
NORTHERN PIKE	-	-	300	50
ROCKFISHES 2/	91,800	5,110	-	-
SABLEFISH	2,586,900	289,440	-	-
SALMON: 3/				
CHINOOK OR KING	6,572,500	2,750,590	467,900	114,880
CHUM OR KETA	19,535,900	1,567,050	34,743,600	2,507,790
PINK	71,505,300	7,735,430	85,513,700	8,882,580
RED OR SOCKEYE	5,500,400	1,556,410	18,212,000	4,328,580
SILVER OR COHO	12,834,300	2,376,130	7,451,700	1,124,330
TOTAL SALMON	115,948,400	15,985,610	146,388,900	16,958,160
TROUT:				
DOLLY VARDEN	-	-	6,600	1,310
LAKE TROUT	-	-	4,400	890
STEELHEAD	10,100	2,020	-	-
WHITEFISH	-	-	16,800	3,370
TOTAL FISH	183,663,000	19,913,610	152,052,700	17,623,840
SHELLFISH, ETC.				
ABALONE	1,100	1,100	-	-
CLAM MEATS, RAZOR	900	410	40,900	19,210
CRABS:				
DUNGENESS	4,633,200	555,990	8,075,300	909,450
KING	820,500	82,050	51,638,600	5,020,600
TANNER	13,900	1,390	-	-
SHRIMP	2,793,100	111,730	4,933,600	197,360
KELP (WITH HERRING EGGS)	398,700	79,740	-	-
TOTAL SHELLFISH, ETC.	8,661,400	832,410	64,688,400	6,146,620
GRAND TOTAL	192,324,400	20,746,020	216,741,100	23,770,460

SPECIES	WESTERN ALASKA		TOTAL	
FISH	POUNDS	VALUE	POUNDS	VALUE
HALIBUT 1/	-	-	22,757,600	$3,572,930
HERRING	-	-	47,903,900	718,560
NORTHERN PIKE	-	-	300	50
ROCKFISHES 2/	-	-	91,800	5,110
SABLEFISH	-	-	2,586,900	289,440
SALMON: 3/				
CHINOOK OR KING	4,526,600	$796,440	11,567,000	3,661,910
CHUM OR KETA	8,410,300	619,730	62,689,800	4,694,570
PINK	5,261,500	555,950	162,280,500	17,173,960
RED OR SOCKEYE	30,419,600	6,361,650	54,132,000	12,246,640
SILVER OR COHO	667,900	81,600	20,953,900	3,582,060
TOTAL SALMON	49,285,900	8,415,370	311,623,200	41,359,140
SHEEFISH	600	120	600	120
TROUT:				
DOLLY VARDEN	-	-	6,600	1,310
LAKE TROUT	-	-	4,400	890
STEELHEAD	-	-	10,100	2,020
WHITEFISH	-	-	16,800	3,370
TOTAL FISH	49,286,500	8,415,490	385,002,200	45,952,940
SHELLFISH, ETC.				
ABALONE	-	-	1,100	1,100
CLAM MEATS, RAZOR	-	-	41,800	19,620
CRABS:				
DUNGENESS	-	-	12,708,500	1,465,440
KING	34,261,600	3,083,540	86,720,700	8,186,190
TANNER	-	-	13,900	1,390
SHRIMP	-	-	7,726,700	309,090
KELP (WITH HERRING EGGS)	-	-	398,700	79,740
TOTAL SHELLFISH, ETC.	34,261,600	3,083,540	107,611,400	10,062,570
GRAND TOTAL	83,548,100	11,499,030	492,613,600	56,015,510

1/ INCLUDES THE VALUE OF HALIBUT LIVERS AND VISCERA AMOUNTING TO $5,420. 2/ INCLUDES LINGCOD. 3/ THE ROUND WEIGHTS USED IN CATCH TABLES WERE OBTAINED BY MULTIPLYING NUMBER OF FISH BY THEIR AVERAGE WEIGHT.

NOTE:--THE ABOVE DATA INCLUDE CATCHES OF HALIBUT, SABLEFISH, AND ROCKFISHES LANDED BY VESSELS OF U. S. REGISTRY IN BRITISH COLUMBIA PORTS. ROUND WEIGHTS OF FISH TAKEN BY HALIBUT VESSELS WERE OBTAINED BY MULTIPLYING REPORTED WEIGHTS, REPRESENTING POUNDAGE OF FISH EVISCERATED AND WITH HEADS-OFF, BY THE FOLLOWING FACTORS: HALIBUT, 1.33; SABLEFISH AND ROCKFISHES, 1.43.

ALASKA

SUMMARY OF PRODUCTS AS PREPARED FOR MARKET, 1964

ITEM	SOUTHEASTERN ALASKA		CENTRAL ALASKA	
	POUNDS	VALUE	POUNDS	VALUE
HALIBUT	14,691,600	$5,653,750	7,030,800	$2,352,430
HERRING	18,315,300	1,164,760	756,700	46,880
ROCKFISHES	56,100	6,570	-	-
SABLEFISH	1,381,700	373,220	-	-
SALMON	79,439,400	38,512,750	100,458,200	46,412,800
TROUT:				
DOLLY VARDEN	-	-	5,000	3,930
LAKE TROUT	-	-	3,300	2,450
STEELHEAD	9,400	4,560	-	-
WHITEFISH	-	-	13,000	4,000
NORTHERN PIKE	-	-	200	80
ABALONE	1,100	1,640	-	-
CLAMS, RAZOR	900	500	40,900	29,990
CRABS:				
DUNGENESS	1,481,900	1,293,260	3,970,300	2,285,700
KING	311,500	285,130	15,887,100	13,900,020
TANNER	12,800	3,840	-	-
SHRIMP	508,700	512,020	893,000	1,002,430
KELP (WITH HERRING EGGS)	289,900	172,010	-	-
TOTAL	116,500,300	47,984,010	129,058,500	66,040,710

ITEM	WESTERN ALASKA		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE
HALIBUT	-	-	21,722,400	$8,006,180
HERRING	-	-	19,072,000	1,211,640
ROCKFISHES	-	-	56,100	6,570
SABLEFISH	-	-	1,381,700	373,220
SALMON	28,747,500	$19,838,530	208,645,100	104,764,080
TROUT:				
DOLLY VARDEN	-	-	5,000	3,930
LAKE TROUT	-	-	3,300	2,450
STEELHEAD	-	-	9,400	4,560
WHITEFISH	-	-	13,000	4,000
NORTHERN PIKE	-	-	200	80
SHEEFISH	400	220	400	220
ABALONE	-	-	1,100	1,640
CLAMS, RAZOR	-	-	41,800	30,490
CRABS:				
DUNGENESS	-	-	5,452,200	3,578,960
KING	6,796,000	7,077,190	22,994,600	21,262,340
TANNER	-	-	12,800	3,840
SHRIMP	-	-	1,401,700	1,514,450
KELP (WITH HERRING EGGS)	-	-	289,900	172,010
TOTAL	35,543,900	26,915,940	281,102,700	140,940,660

NOTE:--DATA ON PRODUCTS AS PREPARED FOR MARKET INCLUDE THE PRODUCTION OF CANADIAN-CAUGHT HALIBUT LANDED IN ALASKA. THE QUANTITY OF FISH LANDED BY HALIBUT CRAFT OF U. S. REGISTRY AT BRITISH COLUMBIA PORTS IS INCLUDED IN THE CATCH CREDITED TO SOUTHEASTERN ALASKA, BUT IS NOT INCLUDED IN DATA ON PRODUCTS AS PREPARED FOR MARKET.

PRODUCTS AS PREPARED FOR MARKET, 1964

ITEM	SOUTHEASTERN ALASKA		CENTRAL ALASKA		WESTERN ALASKA		TOTAL	
FRESH	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HALIBUT, DRESSED	-	-	47,100	$10,870	-	-	47,100	$10,870
SALMON, DRESSED	217,200	$110,270	172,800	60,580	339,900	$200,770	729,900	371,620
TROUT:								
DOLLY VARDEN, DRESSED	-	-	5,000	3,930	-	-	5,000	3,930
LAKE, DRESSED	-	-	3,300	2,450	-	-	3,300	2,450
NORTHERN PIKE, DRESSED	-	-	200	80	-	-	200	80
SHEEFISH, DRESSED	-	-	-	-	400	220	400	220
CLAM MEATS	900	500	200	120	-	-	1,100	620
CRABS:								
DUNGENESS:								
WHOLE	4,300	1,430	52,500	22,340	-	-	56,800	23,770
MEAT	-	-	900	1,560	-	-	900	1,560
KING:								
WHOLE	-	-	200	30	-	-	200	30
SECTIONS	-	-	312,200	156,090	-	-	312,200	156,090
MEAT	-	-	100	70	-	-	100	70
ABALONE, WHOLE	1,100	1,640	-	-	-	-	1,100	1,640
SHRIMP, MEAT	2,800	3,000	1,100	1,330	-	-	3,900	4,330
TOTAL FRESH	226,300	116,840	595,600	259,450	340,300	200,990	1,162,200	577,280

(CONTINUED ON NEXT PAGE)

PRODUCTS AS PREPARED FOR MARKET, 1964 - Continued

ITEM	SOUTHEASTERN ALASKA		CENTRAL ALASKA		WESTERN ALASKA		TOTAL	
FROZEN	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ROCKFISHES, DRESSED . .	56,100	$6,570	-	-	-	-	56,100	$6,570
HALIBUT:								
DRESSED	14,456,900	5,498,720	6,860,700	$2,333,240	-	-	21,317,600	7,831,960
FLETCHES.	200,900	134,810	10,800	2,900	-	-	211,700	137,710
CHEEKS.	30,000	19,800	-	-	-	-	30,000	19,800
LIVERS AND VISCERA. .	3,800	420	111,900	5,000	-	-	115,700	5,420
HERRING:								
BAIT.	3,905,000	115,470	689,600	20,220	-	-	4,594,600	135,690
EGGS WITH KELP. . . .	15,100	7,810	-	-	-	-	15,100	7,810
ROE	10,000	3,990	-	-	-	-	10,000	3,990
SABLEFISH, DRESSED. . .	1,369,900	369,680	-	-	-	-	1,369,900	369,680
SALMON:								
DRESSED	14,827,800	8,596,290	16,556,700	4,813,270	436,300	$193,960	31,820,800	13,603,520
VISCERA	622,100	26,700	169,400	8,500	167,600	16,760	959,100	51,960
TROUT, STEELHEAD, DRESSED.	9,200	4,350	-	-	-	-	9,200	4,350
WHITEFISH, DRESSED. . .	-	-	13,000	4,000	-	-	13,000	4,000
CLAM MEATS.	-	-	36,400	22,500	-	-	36,400	22,500
CRABS:								
DUNGENESS:								
WHOLE	175,700	69,180	1,267,300	506,010	-	-	1,443,000	575,190
SECTIONS.	676,000	363,320	2,025,300	928,630	-	-	2,701,300	1,291,950
MEAT.	534,700	686,220	413,100	448,590	-	-	947,800	1,134,810
KING:								
WHOLE	87,100	47,300	401,400	169,500	-	-	488,500	216,800
SECTIONS.	37,000	18,320	5,848,100	3,057,340	9,700	4,830	5,894,800	3,080,490
MEAT.	185,900	216,560	4,725,200	4,578,690	6,786,300	7,072,360	11,697,400	11,867,610
TANNER, WHOLE	12,800	3,840					12,800	3,840
SHRIMP:								
WHOLE	27,000	12,000	-	-	-	-	27,000	12,000
MEAT.	355,900	365,560	407,400	448,110	-	-	763,300	813,670
TOTAL FROZEN . . .	37,598,900	16,566,910	39,536,300	17,346,500	7,399,900	7,287,910	84,535,100	41,201,320
CURED								
HERRING ROE, SALTED . .	-	-	23,100	23,460	-	-	23,100	23,460
KELP (WITH HERRING ROE), SALTED	274,800	164,200	-	-	-	-	274,800	164,200
SABLEFISH, SMOKED . . .	11,800	3,540	-	-	-	-	11,800	3,540
SALMON:								
MILD CURED.	1,522,200	1,449,790	-	-	265,400	205,100	1,787,600	1,654,890
PICKLED	-	-	68,500	39,570	468,300	315,060	536,800	354,630
SMOKED OR KIPPERED. .	3,800	3,820	3,900	6,080	2,300	3,500	10,000	13,400
EGGS, SALTED.	1,629,900	752,400	731,700	368,930	37,500	14,860	2,399,100	1,136,190
TROUT, STEELHEAD, SMOKED	200	210	-	-	-	-	200	210
TOTAL CURED. . . .	3,442,700	2,373,960	827,200	438,040	773,500	538,520	5,043,400	3,350.520
CANNED								
HALIBUT	-	-	300	420	-	-	300	420
SALMON:								
CHINOOK OR KING . . .	23,700	14,480	253,000	191,230	1,535,800	1,055,000	1,812,500	1,260,710
CHUM OR KETA.	10,423,100	3,934,870	19,220,100	7,229,850	4,094,400	1,500,890	33,737,600	12,665,610
PINK.	43,220,400	18,532,080	46,076,500	19,535,500	3,258,200	1,361,390	92,555,100	39,428,970
RED OR SOCKEYE. . . .	3,395,300	2,919,020	13,055,900	11,689,750	17,900,500	14,819,310	34,351,700	29,428,080
SILVER OR COHO. . . .	3,546,400	2,160,420	4,125,900	2,434,530	241,200	151,710	7,913,500	4,746,660
TOTAL.	60,608,900	27,560,870	82,731,400	41,080,860	27,030,100	18,888,300	170,370,400	87,530,030
SALMON, SMOKED:								
CHINOOK OR KING . . .	700	1,680	4,500	5,730	100	220	5,300	7,630
CHUM OR KETA.	1,000	2,380	3,800	5,530	-	-	4,800	7,910
RED OR SOCKEYE. . . .	-	-	5,500	8,640	-	-	5,500	8,640
SILVER OR COHO. . . .	5,800	8,550	10,000	15,110	-	-	15,800	23,660
TOTAL.	7,500	12,610	23,800	35,010	100	220	31,400	47,840
CLAMS, RAZOR.	-	-	4,300	7,370	-	-	4,300	7,370
CRABS:								
DUNGENESS	91,200	173,110	211,200	378,570	-	-	302,400	551,680
KING.	1,500	2,950	4,599,900	5,938,300	-	-	4,601,400	5,941,250
SHRIMP.	123,000	131,460	484,500	552,990	-	-	607,500	684,450
TOTAL CANNED . . .	60,832,100	27,881,000	88,055,400	47,993,520	27,030,200	18,888,520	175,917,700	94,763,040
INDUSTRIAL PRODUCTS								
HERRING:								
MEAL.	6,927,300	474,700	44,000	3,200	-	-	6,971,300	477,900
OIL	7,473,000	570,600	-	-	-	-	7,473,000	570,600
TOTAL INDUSTRIAL PRODUCTS.	14,400,300	1,045,300	44,000	3,200	-	-	14,444,300	1,048,500
GRAND TOTAL. . . .	116,500,300	47,984,010	129,058,500	66,040,710	35,543,900	26,915,940	281,102,700	140,940,660

PRODUCTION OF CANNED PRODUCTS, 1964

(IN STANDARD CASES)

ITEM	SOUTHEASTERN ALASKA		CENTRAL ALASKA		WESTERN ALASKA		TOTAL	
FISH	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
HALIBUT, SMOKED . .	-	-	7	$420	-	-	7	$420
SALMON:								
CHINOOK OR KING .	494	$14,480	5,270	191,230	31,995	$1,055,000	37,759	1,260,710
CHUM OR KETA. . .	217,148	3,934,870	400,420	7,229,850	85,301	1,500,890	702,869	12,665,610
PINK.	900,425	18,532,080	959,927	19,535,500	67,879	1,361,390	1,928,231	39,428,970
RED OR SOCKEYE. .	70,735	2,919,020	271,997	11,689,750	372,928	14,819,310	715,660	29,428,080
SILVER OR COHO. .	73,880	2,160,420	85,956	2,434,530	5,024	151,710	164,860	4,746,660
TOTAL.	1,262,682	27,560,870	1,723,570	41,080,860	563,127	18,888,300	3,549,379	87,530,030
SALMON, SMOKED:								
CHINOOK OR KING .	14	1,680	94	5,730	3	220	111	7,630
CHUM OR KETA. . .	20	2,380	80	5,530	-	-	100	7,910
RED OR SOCKEYE. .	-	-	114	8,640	-	-	114	8,640
SILVER OR COHO. .	112	8,550	210	15,110	-	-	322	23,660
TOTAL.	146	12,610	498	35,010	3	220	647	47,840
SHELLFISH								
CLAMS, RAZOR. . . .	-	-	290	7,370	-	-	290	7,370
CRABS:								
DUNGENESS	4,677	173,110	10,821	378,570	-	-	15,498	551,680
KING.	77	2,950	235,893	5,938,300	-	-	235,970	5,941,250
SHRIMP.	8,202	121,460	32,302	552,990	-	-	40,504	684,450
GRAND TOTAL. .	1,275,784	27,881,000	2,003,381	47,993,520	563,130	18,888,520	3,842,295	94,763,040

NOTE:--STANDARD CASES REPRESENT THE VARIOUS SIZE PACKS CONVERTED AS FOLLOWS: SALMON, 48 CANS, EACH CONTAINING 16 OUNCES; CLAMS, 48 CANS, EACH CONTAINING 5 OUNCES OF MEATS (DRAINED WEIGHT); CRAB MEAT, 48 CANS, EACH CONTAINING 6-1/2 OUNCES; AND SHRIMP, 48 CANS, EACH CONTAINING 5 OUNCES OF MEAT (DRAINED WEIGHT).

PRODUCTION OF INDUSTRIAL PRODUCTS, 1964

ITEM	SOUTHEASTERN ALASKA		CENTRAL ALASKA		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
HERRING:						
MEAL. . . . . . TONS	3,465	$474,700	22	$3,200	3,487	$477,900
OIL . . . . . . POUNDS	7,473,000	570,600	-	-	7,473,000	570,600
TOTAL. . . .	-	1,045,300	-	3,200	-	1,048,500

SOUTHEASTERN REGION OF ALASKA
OPERATING UNITS BY GEAR, 1964

ITEM	PURSE SEINES 1/		BEAM TRAWLS		OTTER TRAWLS, FISH	FLOATING TRAPS
	HERRING	SALMON	SHRIMP	FISH		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	103	2,849	49	4	8	-
ON BOATS AND SHORE, REGULAR.	-	70	-	-	-	8
TOTAL	103	2,919	49	4	8	8
VESSELS, MOTOR.	15	443	15	1	2	-
GROSS TONNAGE	1,050	13,689	407	42	126	-
BOATS, MOTOR.	15	503	-	-	-	-
GEAR:						
NUMBER.	15	473	15	1	2	4
LENGTH, YARDS	7,400	230,000	-	-	-	-
YARDS AT MOUTH.	-	-	168	11	30	-

ITEM	POTS				GILL NETS	
	CRAB			SHRIMP	ANCHOR, SET OR STAKE	DRIFT
	DUNGENESS	KING	TANNER			
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	119	45	-	3	-	198
ON BOATS AND SHORE, REGULAR.	25	10	2	2	180	225
TOTAL	144	55	2	5	180	423
VESSELS, MOTOR.	44	14	-	1	-	99
GROSS TONNAGE	1,191	618	-	16	-	1,095
BOATS, MOTOR.	11	4	1	1	180	225
GEAR:						
NUMBER.	8,000	1,800	10	20	180	324
LENGTH, YARDS	-	-	-	-	24,000	162,000
SQUARE YARDS.	-	-	-	-	95,000	972,000

ITEM	LINES		SHOVELS	DIVING OUTFITS	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	TROLL, SALMON	LONG OR SET, AND HAND				
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	1,016	724	-	-	-	4,650
ON BOATS AND SHORE, REGULAR.	700	100	8	2	200	1,330
TOTAL	1,716	824	8	2	200	5,980
VESSELS, MOTOR.	508	164	-	-	-	1,150
GROSS TONNAGE	7,297	5,616	-	-	-	27,318
BOATS, MOTOR.	700	50	-	1	100	1,600
GEAR:						
NUMBER.	4,832	6,000	8	2	400	-
HOOKS OR BAITS.	29,000	490,000	-	-	-	-

1/ INCLUDES HAUL SEINES.

SOUTHEASTERN REGION OF ALASKA - CATCH BY GEAR, 1964

SPECIES	PURSE SEINES 1/ SALMON		BEAM TRAWLS, SHRIMP		OTTER TRAWLS, FISH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HERRING, SEA.	46,698,400	$700,480	-	-	-	-
ROCKFISHES 2/	-	-	41,700	$2,080	39,000	$1,950
SALMON:						
CHINOOK OR KING	151,400	29,610	-	-	-	-
CHUM OR KETA.	16,438,500	1,296,460	-	-	-	-
PINK.	65,781,200	7,097,450	-	-	-	-
RED OR SOCKEYE.	3,224,300	856,000	-	-	-	-
SILVER OR COHO.	4,067,200	496,370	-	-	-	-
TOTAL SALMON.	89,662,600	9,775,890	-	-	-	-
SHRIMP.	-	-	2,789,400	111,580	-	-
TOTAL	136,361,000	10,476,370	2,831,100	113,660	39,000	1,950

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SOUTHEASTERN REGION OF ALASKA
CATCH BY GEAR, 1964 - Continued

SPECIES	FLOATING TRAPS		POTS			
			CRAB			
			DUNGENESS		KING	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SALMON:						
CHUM OR KETA.	114,700	$9,050	-	-	-	-
PINK.	1,335,700	144,110	-	-	-	-
RED OR SOCKEYE.	62,300	16,540	-	-	-	-
SILVER OR COHO.	54,600	6,660	-	-	-	-
TOTAL SALMON.	1,567,300	176,360	-	-	-	-
CRABS:						
DUNGENESS	-	-	4,633,200	$555,990	-	-
KING.	-	-	-	-	820,500	$82,050
TANNER.	-	-	-	-	13,900	1,390
TOTAL	1,567,300	176,360	4,633,200	555,990	834,400	83,440

SPECIES	POTS - CONTINUED		GILL NETS			
	SHRIMP		ANCHOR, SET OR STAKE		DRIFT	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SALMON:						
CHINOOK OR KING	-	-	18,600	$2,790	123,000	$52,850
CHUM OR KETA.	-	-	96,800	6,000	2,858,400	252,580
PINK.	-	-	157,100	8,440	3,662,100	414,430
RED OR SOCKEYE.	-	-	517,700	140,230	1,689,400	541,800
SILVER OR COHO.	-	-	1,629,300	161,050	1,354,000	243,210
TOTAL SALMON.	-	-	2,419,500	318,510	9,686,900	1,504,870
TROUT, STEELHEAD.	-	-	-	-	8,600	1,720
SHRIMP.	3,700	$150	-	-	-	-
TOTAL	3,700	150	2,419,500	318,510	9,695,500	1,506,590

SPECIES	LINES				SHOVELS	
	TROLL		LONG OR SET, AND HAND			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HALIBUT	-	-	18,327,400	$2,930,530	-	-
ROCKFISHES 2/	-	-	11,100	1,080	-	-
SABLEFISH	-	-	2,586,900	289,440	-	-
SALMON:						
CHINOOK OR KING	6,279,500	$2,665,340	-	-	-	-
CHUM OR KETA.	27,500	2,960	-	-	-	-
PINK.	569,200	71,000	-	-	-	-
RED OR SOCKEYE.	6,700	1,840	-	-	-	-
SILVER OR COHO.	5,729,200	1,468,840	-	-	-	-
TOTAL SALMON.	12,612,100	4,209,980	-	-	-	-
TROUT, STEELHEAD.	1,500	300	-	-	-	-
CLAM MEATS, RAZOR	-	-	-	-	900	$410
TOTAL	12,613,600	4,210,280	20,925,400	3,221,050	900	410

SPECIES	DIVING OUTFITS		BY HAND	
	POUNDS	VALUE	POUNDS	VALUE
ABALONE	1,100	$1,100	-	-
KELP (WITH HERRING EGGS). .	-	-	398,700	$79,740
TOTAL	1,100	1,100	398,700	79,740

1/ INCLUDES HAUL SEINES.

2/ INCLUDES LINGCOD.

CENTRAL REGION OF ALASKA - OPERATING UNITS BY GEAR, 1964

ITEM	PURSE SEINES 1/		OTTER TRAWLS, SHRIMP	POUND NETS, HERRING	POTS	
					CRAB	
	HERRING	SALMON			DUNGENESS	KING
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	-	2,140	27	-	134	762
ON BOATS AND SHORE, REGULAR.	12	850	-	14	80	146
TOTAL	12	2,990	27	14	214	908
VESSELS, MOTOR. . . .	-	432	7	-	52	223
GROSS TONNAGE . . .	-	6,489	435	-	1,420	12,770
BOATS, MOTOR.	4	1,248	-	7	40	73
GEAR:						
NUMBER.	4	840	7	2	15,000	16,500
LENGTH, YARDS . . .	1,600	336,000	-	-	-	-
YARDS AT MOUTH. . .	-	-	105	-	-	-

ITEM	POTS-CONTINUED	GILL NETS		LINES, LONG OR SET, AND HAND	SHOVELS	TOTAL, EXCLUSIVE OF DUPLICATION
	SHRIMP	ANCHOR, SET OR STAKE	DRIFT			
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	5	-	368	255	-	3,260
ON BOATS AND SHORE, REGULAR.	2	803	1,400	100	100	3,100
TOTAL	7	803	1,768	355	100	6,360
VESSELS, MOTOR. . . .	1	-	184	46	-	771
GROSS TONNAGE . . .	103	-	2,448	2,231	-	22,246
BOATS, MOTOR.	1	803	1,011	50	-	3,480
GEAR:						
NUMBER.	50	803	1,195	2,500	100	-
LENGTH, YARDS . . .	-	186,000	358,000	-	-	-
SQUARE YARDS. . . .	-	664,000	1,560,000	-	-	-
HOOKS OR BAITS. . . .	-	-	-	250,000	-	-

1/ INCLUDES HAUL SEINES.

CENTRAL REGION OF ALASKA - CATCH BY GEAR, 1964

SPECIES	PURSE SEINES 1/		OTTER TRAWLS, SHRIMP		POUND NETS, FISH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HERRING, SEA.	516,000	$7,740	-	-	689,500	$10,340
SALMON:						
CHINOOK OR KING . .	34,700	13,930	-	-	-	-
CHUM OR KETA. . . .	24,636,100	1,788,160	-	-	-	-
PINK.	70,162,700	7,332,250	-	-	-	-
RED OR SOCKEYE. . .	7,131,000	1,424,960	-	-	-	-
SILVER OR COHO. . .	701,600	90,070	-	-	-	-
TOTAL SALMON. .	102,666,100	10,649,370	-	-	-	-
SHRIMP.	-	-	4,931,900	$197,290	-	-
TOTAL	103,182,100	10,657,110	4,931,900	197,290	689,500	10,340

SPECIES	POTS					
	CRAB				SHRIMP	
	DUNGENESS		KING			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRABS:						
DUNGENESS	8,075,300	$909,450	-	-	-	-
KING.	-	-	51,638,600	$5,020,600	-	-
SHRIMP.	-	-	-	-	1,700	$70
TOTAL	8,075,300	909,450	51,638,600	5,020,600	1,700	70

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CENTRAL REGION OF ALASKA
CATCH BY GEAR, 1964 - Continued

SPECIES	GILL NETS			
	ANCHOR, SET OR STAKE		DRIFT	
	POUNDS	VALUE	POUNDS	VALUE
NORTHERN PIKE	300	$50	-	-
SALMON:				
CHINOOK OR KING . . .	91,000	21,990	342,200	$78,960
CHUM OR KETA.	2,224,100	158,020	7,883,400	561,610
PINK.	11,485,500	1,165,650	3,865,500	384,680
RED OR SOCKEYE. . . .	4,082,200	1,035,320	6,998,800	1,868,300
SILVER OR COHO. . . .	2,184,800	343,370	4,565,300	690,890
TOTAL SALMON. . .	20,067,600	2,724,350	23,655,200	2,584,440
TROUT:				
DOLLY VARDEN.	6,600	1,310	-	-
LAKE TROUT.	4,400	890	-	-
WHITEFISH	16,800	3,370	-	-
TOTAL	20,095,700	2,729,970	23,655,200	3,584,440

SPECIES	LINES, LONG OR SET, AND HAND		SHOVELS	
	POUNDS	VALUE	POUNDS	VALUE
HALIBUT	4,430,200	$636,980	-	-
CLAM MEATS, RAZOR . . .	-	-	40,900	$19,210
TOTAL	4,430,200	636,980	40,900	19,210

1/ INCLUDES HAUL SEINES.

WESTERN REGION OF ALASKA - OPERATING UNITS BY GEAR, 1964

ITEM	PURSE SEINES, SALMON 1/	POTS, CRAB, KING	GILL NETS		FISH WHEELS	TOTAL, EXCLUSIVE OF DUPLICATION
			ANCHOR, SET OR STAKE	DRIFT		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	127	155	-	362	-	640
ON BOATS AND SHORE, REGULAR.	6	15	1,800	3,000	6	4,700
TOTAL	133	170	1,800	3,362	6	5,340
VESSELS, MOTOR.	25	37	-	181	-	240
GROSS TONNAGE	532	4,001	-	1,960	-	6,466
BOATS, MOTOR.	29	5	1,500	1,688	-	3,170
GEAR:						
NUMBER.	27	4,200	1,500	1,869	6	-
LENGTH, YARDS	10,000	-	275,000	506,000	-	-
SQUARE YARDS.	-	-	1,072,000	1,766,000	-	-

1/ INCLUDES HAUL SEINES.

WESTERN REGION OF ALASKA - CATCH BY GEAR, 1964

SPECIES	PURSE SEINES 1/		POTS	
	POUNDS	VALUE	POUNDS	VALUE
SALMON:				
CHINOOK OR KING . . .	400	$180	-	-
CHUM OR KETA.	988,200	64,000	-	-
PINK.	632,700	62,260	-	-
RED OR SOCKEYE. . . .	56,300	11,560	-	-
SILVER OR COHO. . . .	1,000	110	-	-
TOTAL	1,678,600	138,110	-	-
CRABS, KING	-	-	34,261,600	$3,083,540
TOTAL	1,678,600	138,110	34,261,600	3,083,540

SEE FOOTNOTE AT END OF TABLE.

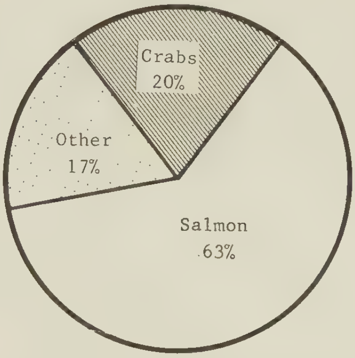
(CONTINUED ON NEXT PAGE)

WESTERN REGION OF ALASKA - CATCH BY GEAR, 1964 - Continued

SPECIES	GILL NETS				FISH WHEELS	
	ANCHOR, SET OR STAKE		DRIFT			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SALMON:						
CHINOOK OR KING . . .	1,878,700	$334,010	2,623,600	$458,030	23,900	$4,220
CHUM OR KETA.	2,375,200	144,990	5,046,900	410,740	-	-
PINK.	594,400	63,360	4,034,400	430,330	-	-
RED OR SOCKEYE. . . .	4,520,800	946,020	25,842,500	5,404,070	-	-
SILVER OR COHO. . . .	246,100	31,080	420,800	50,410	-	-
TOTAL	9,615,200	1,519,460	37,968,200	6,753,580	23,900	4,220
SHEEFISH.	600	120	-	-	-	-
TOTAL	9,615,800	1,519,580	37,968,200	6,753,580	23,900	4,220

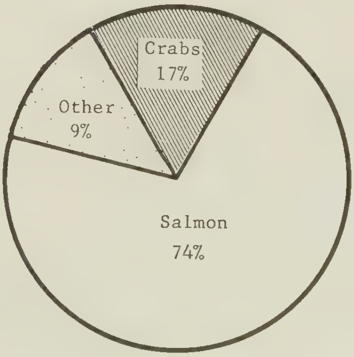
1/ INCLUDES HAUL SEINES.

ALASKA CATCH, 1964



TOTAL 492,613,600 pounds

VALUE OF THE ALASKA CATCH, 1964



TOTAL $56,015,510

ALASKA

NUMBER OF SALMON CAUGHT, BY REGIONS, 1964

SPECIES	SOUTHEASTERN ALASKA		CENTRAL ALASKA	
	NUMBER	VALUE	NUMBER	VALUE
CHINOOK OR KING	357,191	$2,750,590	21,908	$114,880
CHUM OR KETA.	1,936,151	1,567,050	4,160,396	2,507,790
PINK.	18,581,462	7,735,430	24,944,564	8,882,580
RED OR SOCKEYE.	923,923	1,556,410	3,197,737	4,328,580
SILVER OR COHO.	1,587,910	2,376,130	865,774	1,124,330
TOTAL	23,386,637	15,985,610	33,190,379	16,958,160

SPECIES	WESTERN ALASKA		TOTAL	
	NUMBER	VALUE	NUMBER	VALUE
CHINOOK OR KING	260,007	$796,440	639,106	$3,661,910
CHUM OR KETA.	1,179,342	619,730	7,275,889	4,694,570
PINK.	1,746,736	555,950	45,272,762	17,173,960
RED OR SOCKEYE.	5,839,332	6,361,650	9,960,992	12,246,640
SILVER OR COHO.	104,655	81,600	2,558,339	3,582,060
TOTAL	9,130,072	8,415,370	65,707,088	41,359,140

NOTE:--THE SALMON CATCH IS REPORTED IN NUMBERS OF FISH. THE ROUND WEIGHTS USED IN CATCH TABLES WERE OBTAINED BY MULTIPLYING NUMBER OF FISH BY THEIR AVERAGE WEIGHT.

AVERAGE WEIGHTS OF SALMON, BY REGIONS, 1964, 1963, AND 1962

SPECIES	1964			ALL REGIONS		
	SOUTHEASTERN	CENTRAL	WESTERN	1964	1963	1962
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
CHINOOK OR KING	18.4	21.4	17.4	18.1	16.3	19.0
CHUM OR KETA.	10.1	8.4	7.1	8.6	8.0	8.1
PINK.	3.8	3.4	3.0	3.6	3.6	3.3
RED OR SOCKEYE.	6.0	5.7	5.2	5.4	5.7	5.7
SILVER OR COHO.	8.1	8.6	6.4	8.2	8.7	7.5

WHOLESALING AND MANUFACTURING, 1964

ITEM	SOUTHEASTERN ALASKA	CENTRAL ALASKA	WESTERN ALASKA	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING, PERSONS ENGAGED.	2,589	3,349	1,760	7,648
ESTABLISHMENTS:				
HANDLING FRESH AND FROZEN FISH AND SHELLFISH	25	33	15	73
CURING FISH	28	27	12	67
CANNING FISH AND SHELLFISH. . .	27	42	16	82
MANUFACTURING INDUSTRIAL PRODUCTS	2	1	-	3
TOTAL ESTABLISHMENTS, (EXCLUSIVE OF DUPLICATION)	53	83	40	173

PACIFIC COAST FISHERIES

WASHINGTON

CATCH BY DISTRICTS, 1964

SPECIES	PUGET SOUND		COASTAL		COLUMBIA RIVER	
FISH	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CARP	-	-	-	-	946,800	$4,734
COD	6,183,400	$340,086	29,300	$1,436	-	-
FLOUNDERS:						
"SOLE"	10,272,700	734,443	244,300	18,965	-	-
OTHER	802,200	40,908	500	24	6,300	144
HAKE	715,800	11,443	-	-	-	-
HALIBUT	12,130,500	2,321,051	17,800	2,652	1,200	156
HERRING, SEA	3,959,700	129,709	700	82	-	-
LINGCOD	3,453,200	182,008	147,200	6,819	5,400	202
OCEAN PERCH	11,247,500	573,624	6,800	300	-	-
PERCH	129,900	14,077	400	29	-	-
RATFISH	1,374,000	8,742	-	-	-	-
ROCKFISHES	5,203,000	263,459	638,800	28,487	84,300	2,360
SABLEFISH	2,597,100	382,658	12,700	975	-	-
SALMON:						
CHINOOK OR KING	2,354,300	920,198	1,737,700	668,409	1,523,800	496,809
CHUM OR KETA	2,676,500	493,934	451,500	44,894	9,900	1,009
PINK	43,400	7,617	1,600	276	-	-
RED OR SOCKEYE	2,983,100	1,106,712	92,500	48,630	18,600	6,509
SILVER OR COHO	5,255,800	1,524,609	2,626,500	752,235	1,500,300	458,817
TOTAL SALMON	13,313,100	4,053,070	4,909,800	1,514,444	3,052,600	963,144
SHAD	1,900	100	500	23	31,700	1,536
SHARKS:						
GRAYFISH	1,837,000	9,185	-	-	-	-
SOUPFIN	1,200	44	-	-	-	-
UNCLASSIFIED	1,800	9	-	-	-	-
TOTAL SHARKS	1,840,000	9,238	-	-	-	-
SKATES	564,000	3,523	-	-	-	-
SMELT:						
EULACHON	1,700	649	-	-	515,300	52,051
SURF OR SILVER	53,800	5,971	321,600	23,798	-	-
STEELHEAD TROUT 1/	-	-	7,200	2,162	61,200	20,387
STURGEON	42,100	2,575	106,200	7,129	54,800	7,029
SUCKERS	-	-	-	-	13,600	136
TOMCOD	388,000	6,957	-	-	-	-
TUNA, ALBACORE	839,000	136,344	115,500	18,189	100,200	15,134
TOTAL FISH	75,112,600	9,220,635	6,559,300	1,625,514	4,873,400	1,067,013
SHELLFISH						
CRABS, DUNGENESS 2/	1,563,800	259,597	3,411,200	788,786	187,900	43,409
SHRIMP:						
BAY	70,100	33,195	-	-	-	-
OCEAN	-	-	314,100	23,560	-	-
CLAMS:						
HARD: 3/						
BUTTER	45,200	10,852	-	-	-	-
LITTLE NECK	196,700	101,492	-	-	-	-
MANILA	103,600	53,859	5,400	2,362	-	-
RAZOR 4/	-	-	167,000	111,356	-	-
TOTAL CLAMS	345,500	166,203	172,400	113,718	-	-
OCTOPUS	35,800	5,250	-	-	-	-
OYSTERS, MARKET: 5/						
PACIFIC	3,668,200	983,078	4,575,900	1,203,701	-	-
WESTERN	33,700	97,800	-	-	-	-
TOTAL OYSTERS	3,701,900	1,080,878	4,575,900	1,203,701	-	-
SQUID	600	73	-	-	-	-
TOTAL SHELLFISH	5,717,700	1,545,196	8,473,600	2,129,765	187,900	43,409
GRAND TOTAL	80,830,300	10,765,831	15,032,900	3,755,279	5,061,300	1,110,422

1/ DOES NOT INCLUDE STEELHEAD TROUT CAUGHT BY INDIANS AND SOLD IN OTHER STATES.

2/ BASED ON AN AVERAGE YIELD OF 22 POUNDS PER DOZEN IN THE PUGET SOUND DISTRICT AND 24 POUNDS PER DOZEN IN THE COASTAL AND COLUMBIA RIVER DISTRICTS.

3/ BASED ON A YIELD OF 25 PERCENT MEATS.

4/ BASED ON A YIELD OF 42 PERCENT MEATS.

5/ BASED ON A YIELD OF 10 PERCENT MEATS IN THE PUGET SOUND DISTRICT AND 12 PERCENT MEATS IN THE COASTAL DISTRICT.

PUGET SOUND DISTRICT OF WASHINGTON - OPERATING UNITS, 1964

ITEM	HAUL SEINES 1/	PURSE SEINES		BEAM TRAWLS	OTTER TRAWLS	BRUSH WEIRS	POUND NETS 2/
		HERRING	SALMON				
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:							
ON VESSELS	33	29	1,459	8	395	-	-
ON BOATS AND SHORE . . .	220	-	8	2	-	4	8
TOTAL	253	29	1,467	10	395	4	8
VESSELS, MOTOR	11	4	212	3	107	-	-
GROSS TONNAGE.	106	169	7,800	51	5,079	-	-
BOATS:							
MOTOR.	62	4	216	1	-	1	2
OTHER.	26	-	-	-	-	-	-
GEAR:							
NUMBER	99	4	214	4	107	1	2
LENGTH, YARDS.	7,535	1,700	114,320	-	-	-	-
YARDS AT MOUTH	-	-	-	31	2,357	-	-

ITEM	POTS			GILL NETS		
	CRAB	OCTOPUS	SHRIMP	ANCHOR, SET OR STAKE		DRIFT, SALMON
				SALMON 2/	SHARK	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	74	-	4	-	-	269
ON BOATS AND SHORE . . .	85	4	6	150	2	625
TOTAL	159	4	10	150	2	894
VESSELS, MOTOR	37	-	2	-	-	207
GROSS TONNAGE.	889	-	67	-	-	2,387
BOATS:						
MOTOR.	61	3	6	120	2	570
OTHER.	1	-	-	30	-	-
GEAR:						
NUMBER	7,350	150	250	150	2	777
SQUARE YARDS	-	-	-	37,500	2,000	4,744,500

ITEM	LINES					DIP NETS	REEF NETS
	HAND	TROLL			LONG OR SET WITH HOOKS		
		SALMON	ALBACORE	LINGCOD			
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:							
ON VESSELS	-	461	110	20	517	18	-
ON BOATS AND SHORE . . .	22	412	-	19	12	7	252
TOTAL	22	873	110	39	529	25	252
VESSELS, MOTOR	-	320	41	20	88	6	-
GROSS TONNAGE.	-	4,774	1,773	250	4,293	51	-
BOATS:							
MOTOR.	22	343	-	19	6	3	-
OTHER.	-	-	-	-	-	-	126
GEAR:							
NUMBER	44	2,990	465	78	3,813	25	63
HOOKS.	88	13,430	465	156	350,395	-	-

ITEM	DREDGES			SHOVELS	BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
	CLAM	OYSTER				
		COMMON	SUCTION			
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	4	19	3	-	-	3,100
ON BOATS AND SHORE . . .	4	10	-	260	145	2,162
TOTAL	8	29	3	260	145	5,262
VESSELS, MOTOR	2	7	1	-	-	943
GROSS TONNAGE.	22	115	41	-	-	24,150
BOATS:						
MOTOR.	2	5	-	-	33	1,396
OTHER.	-	-	-	-	14	197
GEAR:						
NUMBER	4	24	1	260	-	-
YARDS AT MOUTH	4	48	-	-	-	-

1/ INCLUDES 20 HAUL SEINES OPERATED ON INDIAN RESERVATIONS.
2/ FISHED ONLY ON INDIAN RESERVATIONS.

PUGET SOUND DISTRICT OF WASHINGTON

CATCH BY GEAR, 1964

SPECIES	HAUL SEINES 1/		PURSE SEINES			
			HERRING		SALMON	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, OTHER . . .	700	$33	-	-	-	-
HERRING, SEA	372,500	74,496	3,481,700	$33,076	-	-
LINGCOD.	-	-	-	-	200	$11
PERCH.	124,000	13,397	-	-	-	-
ROCKFISHES	2,200	111	-	-	-	-
SALMON:						
CHINOOK OR KING. . .	66,000	22,441	-	-	478,900	162,825
CHUM OR KETA	19,300	3,178	-	-	1,187,900	223,321
PINK	-	-	-	-	1,000	183
RED OR SOCKEYE . . .	-	-	-	-	1,638,000	607,699
SILVER OR COHO . . .	51,400	13,877	-	-	1,332,600	373,132
SMELT:						
EULACHON	700	259	-	-	-	-
SURF OR SILVER . . .	53,800	5,971	-	-	-	-
OCTOPUS.	1,200	188	-	-	-	-
SQUID.	100	15	-	-	-	-
TOTAL	691,900	133,966	3,481,700	33,076	4,638,600	1,367,171

SPECIES	BEAM TRAWLS		OTTER TRAWLS		BRUSH WEIRS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
COD.	-	-	6,182,300	$340,026	-	-
FLOUNDERS:						
"SOLE"	-	-	10,272,100	734,381	-	-
OTHER.	-	-	801,500	40,875	-	-
HAKE	-	-	715,800	11,443	-	-
HERRING, SEA	-	-	-	-	85,000	$17,009
LINGCOD.	-	-	2,895,500	147,673	-	-
OCEAN PERCH.	-	-	11,247,500	573,624	-	-
PERCH.	-	-	5,900	680	-	-
RATFISH.	-	-	1,374,000	8,742	-	-
ROCKFISHES	-	-	5,070,600	258,601	-	-
SABLEFISH.	-	-	383,600	35,933	-	-
SHAD	-	-	1,900	100	-	-
SHARKS: 3/						
GRAYFISH	-	-	1,820,400	9,102	-	-
OTHER.	-	-	1,800	9	-	-
SKATES	-	-	564,000	3,523	-	-
STURGEON	-	-	41,900	2,556	-	-
TOMCOD	-	-	388,000	6,957	-	-
SHRIMP, BAY.	10,200	$3,747	-	-	-	-
OCTOPUS.	-	-	8,700	914	-	-
SQUID.	-	-	500	58	-	-
TOTAL	10,200	3,747	41,776,000	2,175,197	85,000	17,009

SPECIES	POUND NETS 2/		POTS			
			CRAB		OCTOPUS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SALMON:						
CHINOOK OR KING. . .	70,500	$25,385	-	-	-	-
CHUM OR KETA	2,500	420	-	-	-	-
RED OR SOCKEYE . . .	4,100	1,521	-	-	-	-
SILVER OR COHO . . .	79,300	21,412	-	-	-	-
CRABS, DUNGENESS 4/. .	-	-	1,563,800	$259,597	-	-
OCTOPUS.	-	-	-	-	25,800	$4,124
TOTAL	156,400	48,738	1,563,800	259,597	25,800	4,124

SPECIES	POTS - CONTINUED		GILL NETS			
			ANCHOR, SET OR STAKE			
	SHRIMP		SALMON 2/		SHARK	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
LINGCOD.	-	-	-	-	600	$29
ROCKFISHES	-	-	-	-	900	45
SALMON:						
CHINOOK OR KING. . .	-	-	440,400	$149,745	-	-
CHUM OR KETA	-	-	215,900	35,628	-	-
RED OR SOCKEYE . . .	-	-	300	117	-	-
SILVER OR COHO . . .	-	-	475,700	123,679	-	-
SHARKS, GRAYFISH 3/. .	-	-	-	-	16,600	83
STURGEON	-	-	100	9	-	-
SHRIMP, BAY.	59,900	$29,448	-	-	-	-
TOTAL	59,900	29,448	1,132,400	309,178	18,100	157

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PUGET SOUND DISTRICT OF WASHINGTON
CATCH BY GEAR, 1964 - Continued

SPECIES	GILL NETS - CONTINUED		LINES			
	DRIFT, SALMON		HAND		TROLL	
					SALMON	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
COD.	100	$5	-	-	1,000	$55
HALIBUT.	-	-	200	$37	155,700	26,922
LINGCOD.	300	14	33,500	2,812	303,700	14,681
ROCKFISHES	100	6	7,000	350	37,900	1,516
SALMON:						
CHINOOK OR KING. . .	457,600	169,302	-	-	804,100	377,983
CHUM OR KETA	1,246,700	230,634	-	-	1,400	256
PINK	1,200	221	-	-	41,100	7,195
RED OR SOCKEYE . . .	1,072,400	397,852	-	-	2,800	1,027
SILVER OR COHO . . .	1,463,000	409,653	-	-	1,765,500	558,145
STURGEON	100	10	-	-	-	-
OCTOPUS.	-	-	100	24	-	-
TOTAL	4,241,500	1,207,697	40,800	3,223	3,113,200	987,780

SPECIES	LINES - CONTINUED					
	TROLL - CONTINUED				LONG OR SET WITH HOOKS	
	ALBACORE		LINGCOD			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, "SOLE". . .	-	-	-	-	600	$62
HALIBUT.	-	-	-	-	11,974,600	2,294,092
LINGCOD.	-	-	200,000	$16,000	19,400	788
ROCKFISHES	-	-	-	-	84,300	2,830
SABLEFISH.	-	-	-	-	2,213,500	346,725
SHARKS, SOUPFIN 3/ . .	-	-	-	-	1,200	44
TUNA, ALBACORE	839,000	$136,344	-	-	-	-
TOTAL	839,000	136,344	200,000	16,000	14,293,600	2,644,541

SPECIES	DIP NETS		REEF NETS		DREDGES	
					CLAM	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HERRING, SEA	20,500	$5,128	-	-	-	-
SALMON:						
CHINOOK OR KING. . .	-	-	36,800	$12,517	-	-
CHUM OR KETA	-	-	2,800	497	-	-
PINK	-	-	100	18	-	-
RED OR SOCKEYE . . .	-	-	265,500	98,496	-	-
SILVER OR COHO . . .	-	-	88,300	24,711	-	-
SMELT, EULACHON. . . .	1,000	390	-	-	-	-
CLAMS, HARD: 5/						
BUTTER	-	-	-	-	26,200	$6,296
LITTLE NECK.	-	-	-	-	8,300	4,261
TOTAL	21,500	5,518	393,500	136,239	34,500	10,557

SPECIES	DREDGES - CONTINUED		SHOVELS	
	OYSTER AND BY HAND			
	POUNDS	VALUE	POUNDS	VALUE
CLAMS, HARD:				
BUTTER	-	-	19,000	$4,556
LITTLE NECK.	-	-	188,400	97,231
MANILA	-	-	103,600	53,859
OYSTERS, MARKET: 6/				
PACIFIC.	3,668,200	$983,078	-	-
WESTERN.	33,700	97,800	-	-
TOTAL	3,701,900	1,080,878	311,000	155,646

1/ THE SALMON CAUGHT BY HAUL SEINES WERE TAKEN ON INDIAN RESERVATIONS.

2/ FISHED ONLY ON INDIAN RESERVATIONS.

3/ INCLUDES THE TOTAL VOLUME OF SHARKS CAUGHT. SOME CARCASSES WERE DISCARDED AT SEA.

4/ BASED ON AN AVERAGE OF 22 POUNDS PER DOZEN.

5/ BASED ON A YIELD OF 25 PERCENT MEATS.

6/ BASED ON A YIELD OF 10 PERCENT MEATS FOR PACIFIC OYSTERS AND 18 PERCENT FOR WESTERN OR NATIVE OYSTERS.

NOTE:--THE POUNDAGE AND VALUE OF THE CATCH SHOWN ABOVE INCLUDE THE FOLLOWING ITEMS: HALIBUT LIVERS, 79 POUNDS, VALUE $28; LINGCOD LIVERS, 3,360 POUNDS, VALUE $373; AND SOUPFIN SHARK LIVERS, 148 POUNDS, VALUE $44.

COASTAL DISTRICT OF WASHINGTON - OPERATING UNITS, 1964

ITEM	HAUL SEINES 1/	OTTER TRAWLS	
		FISH	SHRIMP
	NUMBER	NUMBER	NUMBER
FISHERMEN:			
ON VESSELS	-	22	9
ON BOATS AND SHORE	24	-	-
TOTAL	24	22	9
VESSELS, MOTOR	-	6	3
GROSS TONNAGE.	-	285	136
BOATS:			
MOTOR.	7	-	-
OTHER.	3	-	-
GEAR:			
NUMBER	7	6	3
LENGTH, YARDS.	700	-	-
YARDS AT MOUTH	-	135	57

ITEM	POTS, CRAB	GILL NETS		LINES, TROLL
		ANCHOR, SET OR STAKE 1/	DRIFT	SALMON
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS	152	-	10	589
ON BOATS AND SHORE	35	150	180	316
TOTAL	187	150	190	905
VESSELS, MOTOR	62	-	8	396
GROSS TONNAGE.	1,391	-	75	5,930
BOATS:				
MOTOR.	20	115	166	263
OTHER.	-	25	10	-
GEAR:				
NUMBER	15,800	140	184	3,250
SQUARE YARDS	-	31,000	374,000	-
HOOKS.	-	-	-	15,300

ITEM	LINES, TROLL - CONTINUED		DIP NETS 2/	DREDGES, OYSTER
	ALBACORE	LINGCOD		COMMON
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS	55	3	-	53
ON BOATS AND SHORE	-	1	16	8
TOTAL.	55	4	16	61
VESSELS, MOTOR	28	3	-	19
GROSS TONNAGE.	686	38	-	433
BOATS:				
MOTOR.	-	1	4	4
OTHER.	-	-	2	-
GEAR:				
NUMBER	276	8	16	46
YARDS AT MOUTH	-	-	-	92
HOOKS.	276	16	-	-

ITEM	DREDGES, OYSTER - CONTINUED	SHOVELS, CLAM	BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
	SUCTION			
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS	2	-	-	796
ON BOATS AND SHORE	-	551	150	1,403
TOTAL	2	551	150	2,199
VESSELS, MOTOR	1	-	-	466
GROSS TONNAGE.	24	-	-	7,792
BOATS:				
MOTOR.	-	-	-	570
OTHER.	-	-	-	40
GEAR, NUMBER	1	551	-	-

1/ OPERATED ON INDIAN RESERVATIONS.

2/ INCLUDES 14 DIP NETS OPERATED ON INDIAN RESERVATIONS.

COASTAL DISTRICT OF WASHINGTON - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES 1/		OTTER TRAWLS			
			FISH		SHRIMP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
COD	-	-	29,200	$1,431	100	$5
FLOUNDERS:						
"SOLE"	-	-	241,400	18,775	2,800	180
OTHER	-	-	500	24	-	-
HERRING, SEA	700	$82	-	-	-	-
LINGCOD	-	-	57,800	2,891	2,300	112
OCEAN PERCH	-	-	6,100	269	700	31
PERCH	400	29	-	-	-	-
ROCKFISHES	-	-	438,100	20,762	11,700	550
SABLEFISH	-	-	11,600	859	1,100	116
SMELT, SURF OR SILVER	298,400	22,078	-	-	-	-
STURGEON	-	-	800	43	-	-
SHRIMP, OCEAN	-	-	-	-	314,100	23,560
TOTAL	299,500	22,189	785,500	45,054	332,800	24,554

SPECIES	POTS, CRAB		GILL NETS			
			ANCHOR, SET OR STAKE 1/		DRIFT	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SALMON:						
CHINOOK OR KING	-	-	314,400	$75,445	366,600	$105,150
CHUM OR KETA	-	-	26,900	2,693	424,300	42,152
RED OR SOCKEYE	-	-	92,300	48,565	-	-
SILVER OR COHO	-	-	512,900	123,087	399,100	101,598
SHAD	-	-	500	23	-	-
STEELHEAD TROUT	-	-	7,200	2,162	-	-
STURGEON	-	-	100	8	105,300	7,078
CRABS, DUNGENESS 2/	3,411,200	$788,786	-	-	-	-
TOTAL	3,411,200	788,786	954,300	251,983	1,295,300	255,978

SPECIES	LINES, TROLL					
	SALMON		ALBACORE		LINGCOD	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, "SOLE"	100	$10	-	-	-	-
HALIBUT	17,800	2,652	-	-	-	-
LINGCOD	82,100	3,416	-	-	5,000	$400
ROCKFISHES	189,000	7,175	-	-	-	-
SALMON:						
CHINOOK OR KING	1,056,700	487,814	-	-	-	-
CHUM OR KETA	300	49	-	-	-	-
PINK	1,600	276	-	-	-	-
RED OR SOCKEYE	200	65	-	-	-	-
SILVER OR COHO	1,714,500	527,550	-	-	-	-
TUNA, ALBACORE	-	-	115,500	$18,189	-	-
TOTAL	3,062,300	1,029,007	115,500	18,189	5,000	400

SPECIES	DIP NETS 1/		DREDGES, OYSTER AND BY HAND		SHOVELS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SMELT, SURF OR SILVER	23,200	$1,720	-	-	-	-
CLAMS:						
HARD, MANILA 3/	-	-	-	-	5,400	$2,362
RAZOR 4/	-	-	-	-	167,000	111,356
OYSTERS, MARKET, PACIFIC 5/	-	-	4,575,900	$1,203,701	-	-
TOTAL	23,200	1,720	4,575,900	1,203,701	172,400	113,718

1/ FISHED ONLY ON INDIAN RESERVATIONS.
2/ BASED ON AN AVERAGE OF 24 POUNDS PER DOZEN.
3/ BASED ON A YIELD OF 25 PERCENT MEATS.
4/ BASED ON A YIELD OF 42 PERCENT EDIBLE MEATS.
5/ BASED ON A YIELD OF 12 PERCENT MEATS.

COLUMBIA RIVER DISTRICT OF WASHINGTON

OPERATING UNITS, 1964

ITEM	HAUL SEINES	POTS, CRAB	GILL NETS		
			ANCHOR, SET OR STAKE 1/	DRIFT	
				SALMON	SMELT
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	-	26	-	8	-
ON BOATS AND SHORE .	10	4	40	251	30
TOTAL	10	30	40	259	30
VESSELS, MOTOR	-	11	-	6	-
GROSS TONNAGE. . . .	-	189	-	50	-
BOATS:					
MOTOR.	3	2	25	239	30
OTHER.	1	-	9	-	-
GEAR:					
NUMBER	4	2,165	34	245	30
LENGTH, YARDS. . . .	400	-	-	-	-
SQUARE YARDS	-	-	10,000	750,000	27,000

ITEM	LINES, TROLL		DIP NETS 2/	TOTAL, EXCLUSIVE OF DUPLICATION
	SALMON	ALBACORE		
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS	150	25	-	182
ON BOATS AND SHORE .	234	-	133	648
TOTAL	384	25	133	830
VESSELS, MOTOR	105	16	-	119
GROSS TONNAGE. . . .	1,387	274	-	1,594
BOATS:				
MOTOR.	195	-	32	480
OTHER.	-	-	1	11
GEAR:				
NUMBER	1,332	139	133	-
HOOKS.	5,800	139	-	-

1/ OPERATED BY INDIANS.

2/ INCLUDES 51 DIP NETS OPERATED BY INDIANS.

COLUMBIA RIVER DISTRICT OF WASHINGTON

CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		POTS, CRAB		GILL NETS	
					ANCHOR, SET OR STAKE 1/	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CARP	946,800	$4,734	-	-	-	-
SALMON:						
CHINOOK OR KING. . .	-	-	-	-	314,000	$78,499
RED OR SOCKEYE . . .	-	-	-	-	14,000	4,762
SILVER OR COHO . . .	-	-	-	-	4,400	928
SHAD	-	-	-	-	1,300	55
STURGEON	-	-	-	-	2,300	318
SUCKERS.	13,600	136	-	-	-	-
CRABS, DUNGENESS 2/. .	-	-	187,900	$43,409	-	-
TOTAL	960,400	4,870	187,900	43,409	336,000	84,562

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PACIFIC COAST FISHERIES

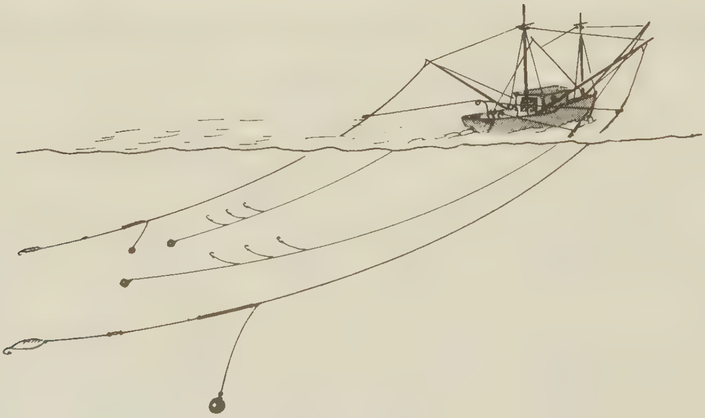
COLUMBIA RIVER DISTRICT OF WASHINGTON

CATCH BY GEAR, 1964 - Continued

SPECIES	GILL NETS - CONTINUED				LINES, TROLL	
	DRIFT				SALMON	
	SALMON AND SHAD		SMELT			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, OTHER	6,300	$144	-	-	-	-
HALIBUT.	-	-	-	-	1,200	$156
LINGCOD.	-	-	-	-	5,400	202
ROCKFISHES	-	-	-	-	84,300	2,360
SALMON:						
CHINOOK OR KING.	907,300	299,422	-	-	208,800	96,388
CHUM OR KETA	9,400	941	-	-	500	68
RED OR SOCKEYE	4,600	1,747	-	-	-	-
SILVER OR COHO	379,500	100,566	-	-	1,111,800	356,353
SHAD	30,400	1,481	-	-	-	-
SMELT, EULACHON.	-	-	119,800	$16,451	-	-
STEELHEAD TROUT.	61,100	20,357	-	-	-	-
STURGEON	52,400	6,697	-	-	100	14
TOTAL.	1,451,000	431,355	119,800	16,451	1,412,100	455,541

SPECIES	LINES, TROLL - CONTINUED		DIP NETS 1/	
	ALBACORE			
	POUNDS	VALUE	POUNDS	VALUE
SALMON:				
CHINOOK OR KING.	-	-	93,700	$22,500
SILVER OR COHO	-	-	4,600	970
SMELT, EULACHON.	-	-	395,500	35,600
STEELHEAD TROUT.	-	-	100	30
TUNA, ALBACORE	100,200	$15,134	-	-
TOTAL.	100,200	15,134	493,900	59,100

1/ FISHED ONLY ON INDIAN RESERVATIONS.
2/ BASED ON AN AVERAGE OF 24 POUNDS PER DOZEN.



Salmon troll line

PACIFIC COAST FISHERIES

OREGON

CATCH BY DISTRICTS, 1964

SPECIES	COLUMBIA RIVER		COASTAL	
FISH	POUNDS	VALUE	POUNDS	VALUE
COD.	200,300	$10,017	200	$9
FLOUNDERS:				
"SOLE"	8,816,600	501,903	5,960,800	341,049
OTHER.	575,500	26,225	69,000	3,008
HAKE	50,000	1,250	-	-
HALIBUT.	40,700	7,630	96,300	17,370
HERRING, SEA	-	-	32,600	9,793
LINGCOD.	598,000	29,863	189,000	9,880
OCEAN PERCH.	5,801,100	259,051	3,917,900	165,636
PERCH.	-	-	1,400	140
ROCKFISHES	3,566,500	150,382	1,612,500	63,104
SABLEFISH.	178,700	14,930	229,100	25,375
SALMON:				
CHINOOK OR KING.	3,385,000	1,106,803	601,500	269,385
CHUM OR KETA	14,500	1,160	-	-
PINK	100	15	-	-
RED OR SOCKEYE	50,200	17,937	-	-
SILVER OR COHO	2,195,800	558,261	3,619,800	1,101,668
TOTAL SALMON.	5,645,600	1,684,176	4,221,300	1,371,053
SEA BASS, WHITE.	-	-	9,100	366
SHAD	273,600	13,133	510,400	45,940
SHARKS, SOUPFIN.	1,000	24	-	-
SKATES	150,000	3,750	80,000	2,000
SMELT:				
EULACHON	326,400	44,067	-	-
SURF OR SILVER	-	-	2,700	265
STEELHEAD TROUT.	361,200	99,182	-	-
STRIPED BASS	-	-	46,500	6,975
STURGEON	150,700	12,777	9,700	483
TUNA, ALBACORE	3,408,000	553,800	1,047,300	162,326
TOTAL FISH.	30,143,900	3,412,160	18,035,800	2,224,772
SHELLFISH				
CRABS, DUNGENESS 1/.	948,900	227,228	2,408,200	590,000
CRAWFISH, FRESH-WATER.	11,200	3,362	-	-
SHRIMP, OCEAN.	233,400	18,500	5,046,100	430,500
CLAMS:				
RAZOR 2/	-	-	14,600	8,800
MIXED 3/	-	-	13,200	7,550
TOTAL CLAMS	-	-	27,800	16,350
OYSTERS, MARKET, PACIFIC 4/	-	-	334,500	105,900
TOTAL SHELLFISH	1,193,500	249,090	7,816,600	1,142,750
WHALE PRODUCTS:				
MEAL	4,000	187	-	-
MEAT	7,400	518	-	-
OIL, SPERM	4,500	460	-	-
TOTAL WHALE PRODUCTS.	15,900	1,165	-	-
GRAND TOTAL	31,353,300	3,662,415	25,852,400	3,367,522

1/ BASED ON AN AVERAGE YIELD OF 25 POUNDS PER DOZEN.
2/ BASED ON A YIELD OF 42 PERCENT MEATS.
3/ PRINCIPALLY EASTERN SOFT CLAMS. BASED ON A YIELD OF 21 PERCENT MEATS.
4/ BASED ON A YIELD OF 12 PERCENT MEATS.

COLUMBIA RIVER DISTRICT OF OREGON - OPERATING UNITS, 1964

ITEM	OTTER TRAWLS		POTS	
	FISH	SHRIMP	CRAB	CRAWFISH
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS.	130	11	79	-
ON BOATS AND SHORE. . . .	-	-	32	10
TOTAL.	130	11	111	10
VESSELS, MOTOR.	34	3	36	-
GROSS TONNAGE	1,884	207	530	-
BOATS, MOTOR.	-	-	17	6
GEAR:				
NUMBER.	34	3	9,100	275
YARDS AT MOUTH.	767	57	-	-

ITEM	GILL NETS			LINES
		DRIFT		TROLL
	ANCHOR, SET OR STAKE 1/	SALMON AND SHAD	SMELT	SALMON
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS.	-	-	-	169
ON BOATS AND SHORE. . . .	80	440	40	62
TOTAL.	80	440	40	231
VESSELS, MOTOR.	-	-	-	103
GROSS TONNAGE	-	-	-	1,516
BOATS:				
MOTOR	60	399	40	52
OTHER	15	-	-	-
GEAR:				
NUMBER.	75	399	40	800
SQUARE YARDS.	22,500	1,217,000	36,000	-
HOOKS	-	-	-	3,800

ITEM	LINES - CONTINUED			HARPOON	TOTAL, EXCLUSIVE OF DUPLICATION
	TROLL - CONTINUED		LONG OR SET WITH HOOKS		
	ALBACORE	OTHER			
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	333	1	14	3	611
ON BOATS AND SHORE. . . .	-	-	-	-	604
TOTAL.	333	1	14	3	1,215
VESSELS, MOTOR.	141	1	3	1	259
GROSS TONNAGE	4,544	17	87	96	7,491
BOATS:					
MOTOR	-	-	-	-	518
OTHER	-	-	-	-	15
GEAR:					
NUMBER.	1,505	2	86	1	-
HOOKS	1,505	4	8,000	-	-

1/ OPERATED BY INDIANS.

COLUMBIA RIVER DISTRICT OF OREGON - CATCH BY GEAR, 1964

SPECIES	OTTER TRAWLS				POTS			
	FISH		SHRIMP		CRAB		CRAWFISH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
COD	200,300	$10,017	-	-	-	-	-	-
FLOUNDERS:								
"SOLE"	8,812,700	501,681	3,900	$222	-	-	-	-
OTHER	503,500	24,427	-	-	-	-	-	-
HAKE	50,000	1,250	-	-	-	-	-	-
LINGCOD	594,500	29,725	700	33	-	-	-	-
OCEAN PERCH	5,801,000	259,045	100	6	-	-	-	-
ROCKFISHES	3,545,900	149,588	6,900	289	-	-	-	-
SABLEFISH	161,200	12,366	200	17	-	-	-	-
SHARKS, SOUPFIN	1,000	24	-	-	-	-	-	-
SKATES	150,000	3,750	-	-	-	-	-	-
STURGEON	21,500	1,252	-	-	-	-	-	-
CRABS, DUNGENESS	-	-	-	-	948,900	$227,228	-	-
CRAWFISH, FRESH-WATER	-	-	-	-	-	-	11,200	$3,362
SHRIMP, OCEAN	-	-	233,400	18,500	-	-	-	-
TOTAL	19,841,600	993,125	245,200	19,067	948,900	227,228	11,200	3,362

SPECIES	GILL NETS						LINES	
	ANCHOR, SET OR STAKE 1/		DRIFT				TROLL	
			SALMON AND SHAD		SMELT		SALMON	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, OTHER	-	-	72,000	$1,798	-	-	-	-
HALIBUT	-	-	-	-	-	-	500	$80
LINGCOD	-	-	-	-	-	-	2,300	78
ROCKFISHES	-	-	-	-	-	-	11,300	428
SALMON:								
CHINOOK OR KING	331,700	$82,932	2,934,300	968,317	-	-	119,000	55,554
CHUM OR KETA	-	-	14,500	1,160	-	-	-	-
PINK	-	-	100	15	-	-	-	-
RED OR SOCKEYE	38,200	13,356	12,000	4,581	-	-	-	-
SILVER OR COHO	15,400	3,243	1,567,700	360,568	-	-	612,700	194,450
SHAD	-	-	273,600	13,133	-	-	-	-
SMELT, EULACHON	-	-	-	-	326,400	$44,067	-	-
STEELHEAD TROUT	48,900	11,726	311,900	87,342	-	-	400	114
STURGEON	-	-	129,200	11,525	-	-	-	-
TOTAL	434,200	111,257	5,315,300	1,448,439	326,400	44,067	746,200	250,704

SPECIES	LINES - CONTINUED						HARPOON	
	TROLL				LONG OR SET WITH HOOKS			
	ALBACORE		OTHER					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HALIBUT	-	-	-	-	40,200	$7,550	-	-
LINGCOD	-	-	200	$15	300	12	-	-
ROCKFISHES	-	-	-	-	2,400	77	-	-
SABLEFISH	-	-	-	-	17,300	2,547	-	-
TUNA, ALBACORE	3,408,000	$553,800	-	-	-	-	-	-
WHALE PRODUCTS:								
MEAL	-	-	-	-	-	-	4,000	$187
MEAT	-	-	-	-	-	-	7,400	518
OIL, SPERM	-	-	-	-	-	-	4,500	460
TOTAL	3,408,000	553,800	200	15	60,200	10,186	15,900	1,165

1/ FISHED ONLY ON INDIAN RESERVATIONS.

NOTE:--THE FOLLOWING SPECIES LANDED IN THE COLUMBIA RIVER DISTRICT WERE CAUGHT OFF THE COAST: COD, "SOLE", HALIBUT, LINGCOD, OCEAN PERCH, ROCKFISHES, SHARKS, SKATES, TUNA, CRAB, SHRIMP, WHALES, THE OTTER TRAWL CATCH OF FLOUNDERS AND STURGEON, AND MOST OF THE TROLL CATCH OF SALMON.

COASTAL DISTRICT OF OREGON - OPERATING UNITS, 1964

ITEM	HAUL SEINES	OTTER TRAWLS	
		FISH	SHRIMP
	NUMBER	NUMBER	NUMBER
FISHERMEN:			
ON VESSELS	-	108	79
ON BOATS AND SHORE	12	-	-
TOTAL	12	108	79
VESSELS, MOTOR	-	30	25
GROSS TONNAGE.	-	1,324	178
BOATS:			
MOTOR.	4	-	-
OTHER.	2	-	-
GEAR:			
NUMBER	4	30	25
LENGTH, YARDS.	400	-	-
YARDS AT MOUTH	-	672	475

ITEM	POTS, CRAB	GILL NETS, SHAD	
		ANCHOR, SET OR STAKE	DRIFT
	NUMBER	NUMBER	NUMBER
FISHERMEN:			
ON VESSELS	255	-	-
ON BOATS AND SHORE	73	30	48
TOTAL	328	30	48
VESSELS, MOTOR	110	-	-
GROSS TONNAGE.	2,028	-	-
BOATS, MOTOR	50	26	45
GEAR:			
NUMBER	29,400	118	45
SQUARE YARDS	-	30,000	90,000

ITEM	LINES		
	TROLL		LONG OR SET WITH HOOKS
	SALMON	ALBACORE	
	NUMBER	NUMBER	NUMBER
FISHERMEN:			
ON VESSELS	637	290	13
ON BOATS AND SHORE	452	6	-
TOTAL	1,089	296	13
VESSELS, MOTOR	377	139	4
GROSS TONNAGE.	5,582	3,187	57
BOATS, MOTOR	383	4	-
GEAR:			
NUMBER	3,690	1,424	88
HOOKS.	16,950	1,424	8,660

ITEM	DREDGES, OYSTER, COMMON	SHOVELS	BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS	3	-	-	998
ON BOATS AND SHORE	2	125	20	683
TOTAL	5	125	20	1,681
VESSELS, MOTOR	1	-	-	494
GROSS TONNAGE.	20	-	-	9,230
BOATS:				
MOTOR.	1	-	2	465
OTHER.	-	-	2	4
GEAR:				
NUMBER	4	125	-	-
YARDS AT MOUTH	8	-	-	-

COASTAL DISTRICT OF OREGON - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		OTTER TRAWLS				POTS, CRAB	
			FISH		SHRIMP			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
COD	-	-	200	$9	-	-	-	-
FLOUNDERS:								
"SOLE"	-	-	5,874,200	336,022	84,500	$4,815	-	-
OTHER	200	$10	68,800	2,998	-	-	-	-
HERRING, SEA	32,600	9,793	-	-	-	-	-	-
LINGCOD	-	-	158,600	8,625	14,400	722	-	-
OCEAN PERCH	-	-	3,915,000	165,507	2,900	129	-	-
PERCH	1,400	140	-	-	-	-	-	-
ROCKFISHES	-	-	1,426,300	55,652	149,600	6,284	-	-
SABLEFISH	-	-	101,400	7,822	4,900	375	-	-
SKATES	-	-	80,000	2,000	-	-	-	-
SMELT, SURF OR SILVER	2,700	265	-	-	-	-	-	-
STURGEON	-	-	9,700	483	-	-	-	-
CRABS, DUNGENESS	-	-	-	-	-	-	2,408,200	$590,000
SHRIMP, OCEAN	-	-	-	-	5,046,100	430,500	-	-
TOTAL	36,900	10,208	11,634,200	579,118	5,302,400	442,825	2,408,200	590,000

SPECIES	GILL NETS, SHAD				LINES			
					TROLL			
	ANCHOR, SET OR STAKE		DRIFT		SALMON		ALBACORE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HALIBUT	-	-	-	-	2,400	$324	-	-
LINGCOD	-	-	-	-	14,300	473	-	-
ROCKFISHES	-	-	-	-	20,400	715	-	-
SALMON:								
CHINOOK OR KING	-	-	-	-	601,500	269,385	-	-
SILVER OR COHO	-	-	-	-	3,619,800	1,101,668	-	-
SEA BASS, WHITE	-	-	-	-	9,100	366	-	-
SHAD	100,000	$9,000	410,400	$36,940	-	-	-	-
STRIPED BASS	10,000	1,500	36,500	5,475	-	-	-	-
TUNA, ALBACORE	-	-	-	-	-	-	1,047,300	$162,326
TOTAL	110,000	10,500	446,900	42,415	4,267,500	1,372,931	1,047,300	162,326

SPECIES	LINES - CONTINUED		DREDGES, OYSTER AND BY HAND		SHOVELS	
	LONG OR SET WITH HOOKS					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, "SOLE"	2,100	$212	-	-	-	-
HALIBUT	93,900	17,046	-	-	-	-
LINGCOD	1,700	60	-	-	-	-
ROCKFISHES	16,200	453	-	-	-	-
SABLEFISH	122,800	17,178	-	-	-	-
CLAMS:						
RAZOR	-	-	-	-	14,600	$8,800
MIXED	-	-	-	-	13,200	7,550
OYSTERS, MARKET, PACIFIC	-	-	334,500	$105,900	-	-
TOTAL	236,700	34,949	334,500	105,900	27,800	16,350

CALIFORNIA

CALIFORNIA - CATCH BY DISTRICTS, 1964

SPECIES	NORTHERN		SAN FRANCISCO		MONTEREY	
FISH	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANCHOVIES.	-	-	30,100	$2,535	2,833,200	$44,315
BONITO	-	-	-	-	1,300	56
CABEZONE	-	-	-	-	1,900	70
CARP	-	-	194,500	11,466	-	-
FLOUNDERS:						
ARROWTOOTH HALIBUT	9,100	$391	700	28	-	-
CALIFORNIA HALIBUT	400	98	183,700	43,473	42,900	10,359
SAND DABS.	148,600	11,849	308,800	20,244	112,200	6,949
"SOLE":						
DOVER.	6,252,200	390,708	2,737,000	154,077	67,100	3,355
ENGLISH.	1,782,400	140,232	1,992,700	154,459	339,800	30,733
PETRALE.	1,090,700	124,846	948,100	118,010	200,800	26,225
REX.	642,700	46,396	459,800	31,213	183,300	9,172
SAND	16,000	1,745	256,300	29,565	800	98
UNCLASSIFIED	300	16	2,400	135	15,400	1,502
OTHER.	91,500	4,675	233,800	13,059	69,100	6,209
HAKE	-	-	17,500	295	56,800	924
HALIBUT.	3,000	917	-	-	-	-
HARDHEAD	-	-	156,800	41,515	-	-
HERRING, SEA	300	15	30,700	2,603	318,300	29,794
KING CROAKER	-	-	23,200	1,983	87,500	5,389
LINGCOD.	457,700	33,355	273,600	21,644	57,100	5,447
MACKEREL:						
JACK	900	25	1,700	75	2,584,200	66,116
PACIFIC.	-	-	-	-	2,600	64
PERCH.	44,600	5,154	17,600	3,379	16,800	2,397
POMPANO.	-	-	-	-	56,200	19,007
ROCKFISHES	1,885,200	94,033	1,750,300	95,220	2,174,900	119,574
SABLEFISH.	1,136,700	109,190	826,300	31,866	410,700	17,992
SALMON:						
CHINOOK OR KING.	4,025,100	2,171,306	3,105,800	1,898,029	309,000	189,740
SILVER OR COHO	1,398,200	489,370	401,700	148,629	69,400	25,678
TOTAL SALMON.	5,423,300	2,660,676	3,507,500	2,046,658	378,400	215,418
SARDINE, PACIFIC	-	-	-	-	414,600	20,847
SEA BASS, WHITE.	-	-	9,400	2,272	26,300	4,865
SHARKS, UNCLASSIFIED	1,100	71	136,300	7,100	41,800	1,472
SKATES	30,900	122	107,400	1,226	77,800	1,195
SMELT.	230,000	12,641	88,200	10,951	36,800	2,278
SWORDFISH.	-	-	-	-	900	480
TUNA:						
ALBACORE	4,750,400	653,095	1,336,800	184,280	2,272,400	312,733
SKIPJACK	-	-	1,187,000	127,101	100	8
YELLOWFIN.	-	-	1,511,700	232,088	-	-
TOTAL TUNA.	4,750,400	653,095	4,035,500	543,469	2,272,500	312,741
TURBOT	6,000	339	58,000	3,054	1,100	21
WHITEBAIT.	180,400	13,432	10,900	1,166	-	-
UNCLASSIFIED:						
FOR FOOD	-	-	300	83	200	12
BAIT AND ANIMAL FOOD . . .	852,000	17,040	42,900	858	46,900	937
TOTAL FISH.	25,036,400	4,321,061	18,442,000	3,393,681	12,980,200	966,013
SHELLFISH						
CRABS:						
DUNGENESS.	984,400	297,849	821,000	315,570	7,800	3,320
ROCK	9,300	930	100	9	600	47
TOTAL CRABS	993,700	298,779	821,100	315,579	8,400	3,367
SHRIMP, OCEAN.	1,065,200	106,516	35,000	3,701	5,800	4,050
ABALONE 1/	-	-	7,700	7,238	100	89
CLAMS, HARD 2/	1,000	635	-	-	-	-
OCTOPUS.	4,800	200	25,200	1,181	6,700	664
OYSTERS, MARKET: 3/						
EASTERN.	-	-	4,900	10,277	-	-
PACIFIC.	894,500	161,012	208,300	37,492	8,400	1,520
TOTAL OYSTERS	894,500	161,012	213,200	47,769	8,400	1,520
SQUID.	-	-	-	-	9,101,600	242,950
MOLLUSKS, UNCLASSIFIED	-	-	-	-	500	114
TOTAL SHELLFISH	2,959,200	567,142	1,102,200	375,468	9,131,500	252,754

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CALIFORNIA - CATCH BY DISTRICTS, 1964 - Continued

SPECIES	NORTHERN		SAN FRANCISCO		MONTEREY	
WHALE PRODUCTS	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
MEAL	-	-	3,323,800	$155,173	-	-
MEAT	-	-	4,514,400	382,003	-	-
OIL:						
SPERM	-	-	396,500	25,224	-	-
WHALE	-	-	2,758,500	169,971	-	-
TOTAL WHALE PRODUCTS	-	-	10,993,200	732,371	-	-
GRAND TOTAL	27,995,600	$4,888,203	30,537,400	4,501,520	22,111,700	1,218,767

SPECIES	SANTA BARBARA		SAN PEDRO		SAN DIEGO	
FISH	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANCHOVIES	1,100	$65	2,107,300	$34,977	3,400	$169
BARRACUDA	59,000	8,914	258,900	43,542	16,300	2,505
BONITO	12,000	262	2,460,800	59,971	138,300	5,406
CABEZONE	3,200	193	100	11	-	-
CABRILLA	-	-	13,600	2,190	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT	371,200	81,855	384,100	90,569	293,800	62,428
SAND DABS	500	32	300	57	19,100	4,995
"SOLE":						
DOVER	208,900	12,350	-	-	-	-
ENGLISH	427,800	28,681	-	-	-	-
PETRALE	457,100	53,314	-	-	1,000	246
REX	124,900	8,615	-	-	-	-
SAND	63,200	7,348	-	-	-	-
UNCLASSIFIED	10,600	460	2,300	241	16,400	4,063
OTHER	26,600	1,424	-	-	-	-
FLYING FISH	-	-	85,900	10,814	-	-
GROUPERS	-	-	124,200	27,445	39,800	9,584
HAKE	37,200	586	-	-	-	-
HALFMOON	-	-	9,800	1,878	200	25
KING CROAKER	900	35	723,700	31,460	3,300	309
LINGCOD	46,400	3,892	1,200	115	300	28
MACKEREL:						
JACK	12,178,800	238,922	74,927,400	1,804,131	-	-
PACIFIC	848,400	17,691	25,973,500	648,477	3,400	203
OPALEYE	-	-	2,000	334	-	-
PERCH	28,000	6,079	24,500	3,050	1,700	269
POMPANO	2,900	628	61,800	13,505	400	95
ROCKFISHES	1,584,300	90,845	479,400	60,918	243,900	29,526
SABLEFISH	88,200	3,513	900	95	600	47
SALMON:						
CHINOOK OR KING	122,600	72,544	-	-	-	-
SILVER OR COHO	49,400	17,290	-	-	-	-
TOTAL SALMON	172,000	89,834	-	-	-	-
SARDINE, PACIFIC	840,000	24,615	11,686,700	431,583	196,200	23,097
SCULPIN	-	-	16,100	5,401	78,100	21,213
SEA BASS:						
BLACK	1,000	129	145,400	23,399	76,400	12,378
WHITE	65,600	16,893	1,081,500	244,758	208,300	40,563
SHARKS, UNCLASSIFIED	125,500	12,831	219,400	28,148	122,400	12,966
SHEEPSHEAD	1,000	67	5,100	378	11,800	967
SKATES	5,900	280	700	69	-	-
SMELT	-	-	59,100	2,557	-	-
SWORDFISH	15,200	7,641	145,100	82,767	21,800	11,852
TUNA:						
ALBACORE	3,891,800	538,029	20,189,800	3,261,568	10,109,700	1,630,008
BLUEFIN	-	-	20,472,400	2,490,314	2,698,800	336,279
SKIPJACK	-	-	52,209,500	5,187,783	12,662,300	1,309,462
YELLOWFIN	-	-	119,794,200	15,956,644	27,714,200	3,660,804
TOTAL TUNA	3,891,800	538,029	212,665,900	26,896,309	53,185,000	6,936,553
TURBOT	28,300	1,473	-	-	-	-
WAHOO	-	-	-	-	4,200	849
YELLOWTAIL	100	7	71,700	8,253	38,300	3,434
UNCLASSIFIED:						
FOR FOOD	100	6	146,500	3,164	1,300	146
BAIT AND ANIMAL FOOD	796,600	15,945	-	-	-	-
TOTAL FISH	22,524,300	1,273,454	333,884,900	30,560,566	54,725,700	7,183,916

SEE FOOTNOTES AT END OF TABLE.

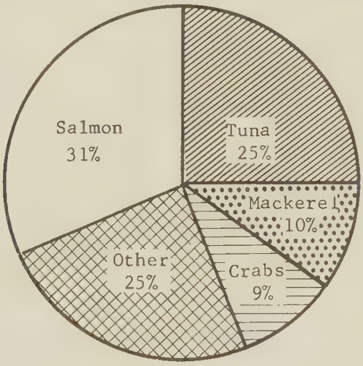
(CONTINUED ON NEXT PAGE)

CALIFORNIA - CATCH BY DISTRICTS, 1964 - Continued

SPECIES	SANTA BARBARA		SAN PEDRO		SAN DIEGO	
SHELLFISH	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRABS:						
DUNGENESS	2,100	$938	-	-	-	-
ROCK	116,900	7,259	130,200	$16,157	6,800	$322
TOTAL CRABS	119,000	8,197	130,200	16,157	6,800	322
LOBSTER, SPINY	103,800	66,321	163,800	116,251	179,100	126,306
ABALONE 1/	535,100	405,518	224,800	137,297	48,100	22,669
OCTOPUS	2,000	115	-	-	-	-
OYSTERS, MARKET, PACIFIC 3/	243,500	43,826	-	-	-	-
SQUID	470,000	4,516	6,858,100	84,957	3,900	97
TOTAL SHELLFISH	1,473,400	528,493	7,376,900	354,662	237,900	149,394
GRAND TOTAL	23,997,700	1,801,947	341,261,800	30,915,228	54,963,600	7,333,310

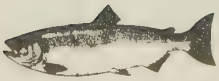
1/ BASED ON YIELDS OF 20 PERCENT MEATS.
2/ BASED ON YIELDS OF 24 PERCENT MEATS.
3/ BASED ON YIELDS OF 14 PERCENT MEATS.

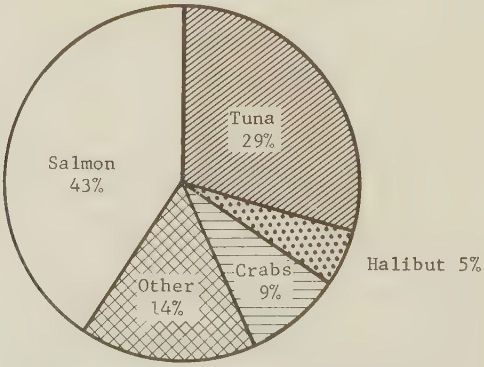
PACIFIC COAST CATCH, 1964



1,151,612,000 pounds

VALUE OF PACIFIC COAST CATCH, 1964





Total $129,337,000

CALIFORNIA CATCH BY WATERS, 1964

SPECIES	OFF UNITED STATES		OFF LATIN AMERICA	
	POUNDS	VALUE	POUNDS	VALUE
ANCHOVIES	4,975,100	$82,061	-	-
BARRACUDA	251,100	41,291	83,100	$13,670
BONITO	2,606,500	65,523	5,900	172
CABEZONE	5,200	274	-	-
CABRILLA	-	-	13,600	2,190
CARP	194,500	11,466	-	-
FLOUNDERS:				
ARROWTOOTH HALIBUT	9,800	419	-	-
CALIFORNIA HALIBUT	1,092,100	247,161	184,000	41,621
SAND DABS	589,000	44,089	500	37
"SOLE":				
DOVER	9,265,200	560,490	-	-
ENGLISH	4,592,700	354,105	-	-
PETRALE	2,697,700	322,641	-	-
REX	1,410,700	95,396	-	-
SAND	336,300	38,756	-	-
UNCLASSIFIED	47,300	6,403	100	14
OTHER	421,000	25,367	-	-
FLYING FISH	85,900	10,814	-	-
GROUPERS	-	-	164,000	37,029
HAKE	111,500	1,805	-	-
HALFMOON	10,000	1,903	-	-
HALIBUT	3,000	917	-	-
HARDHEAD	156,800	41,515	-	-
HERRING, SEA	349,300	32,412	-	-
KING CROAKER	838,500	39,171	100	5
LINGCOD	835,600	64,425	700	56
MACKEREL:				
JACK	89,673,000	2,108,799	20,000	470
PACIFIC	26,827,200	666,418	700	17
OPALEYE	2,000	334	-	-
PERCH	131,400	20,058	1,800	270
POMPANO	121,300	33,235	-	-
ROCKFISHES	8,043,900	485,640	74,100	4,476
SABLEFISH	2,463,400	162,703	-	-
SALMON:				
CHINOOK OR KING	7,562,500	4,331,619	-	-
SILVER OR COHO	1,918,700	680,967	-	-
SARDINE, PACIFIC	13,137,500	500,142	-	-
SCULPIN	77,600	21,923	16,600	4,691
SEA BASS:				
BLACK	14,100	2,273	208,700	33,633
WHITE	550,800	122,498	840,300	186,853
SHARKS, UNCLASSIFIED	606,300	58,697	40,200	3,891
SHEEPSHEAD	13,400	1,057	4,500	355
SKATES	222,700	2,892	-	-
SMELT	414,100	28,427	-	-
SWORDFISH	177,300	99,539	5,700	3,201
TUNA:				
ALBACORE	33,867,700	5,237,290	8,683,200	1,342,423
BLUEFIN	4,655,300	567,947	18,515,900	2,258,646
SKIPJACK	3,900	390	66,055,000	6,623,964
YELLOWFIN	100	13	149,020,000	19,649,523
TURBOT	93,400	4,887	-	-
WAHOO	-	-	4,200	849
WHITEBAIT	191,300	14,598	-	-
YELLOWTAIL	25,900	2,751	84,200	6,943
UNCLASSIFIED:				
FOR FOOD	147,500	3,390	900	21
BAIT AND ANIMAL FOOD	1,738,400	34,780	-	-
CRABS:				
DUNGENESS	1,815,300	617,677	-	-
ROCK	263,900	24,724	-	-
LOBSTER, SPINY	446,700	308,878	-	-
SHRIMP, OCEAN	1,106,000	114,267	-	-
ABALONE	815,800	572,811	-	-
CLAMS, HARD	1,000	635	-	-
OCTOPUS	38,700	2,160	-	-
OYSTERS, MARKET:				
EASTERN	4,900	10,277	-	-
PACIFIC	1,354,700	243,850	-	-
SQUID	16,433,600	332,520	-	-
MOLLUSKS, UNCLASSIFIED	500	114	-	-
WHALE PRODUCTS:				
MEAL	3,323,800	155,173	-	-
MEAT	4,514,400	362,003	-	-
OIL:				
SPERM	396,500	25,224	-	-
WHALE	2,758,500	169,971	-	-
TOTAL	256,839,800	20,241,955	244,028,000	30,417,020

NORTHERN DISTRICT OF CALIFORNIA - OPERATING UNITS, 1964

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS		POTS, CRAB
		FISH	SHRIMP	
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS	-	129	26	270
ON BOATS AND SHORE	4	4	-	54
TOTAL	4	133	26	324
VESSELS, MOTOR	-	34	7	116
GROSS TONNAGE.	-	1,657	293	2,068
BOATS, MOTOR	2	2	-	34
GEAR:				
NUMBER	2	36	7	14,105
LENGTH, YARDS.	400	-	-	-
YARDS AT MOUTH	-	958	103	-

ITEM	LINES			
	HAND	TROLL		
		SALMON	ALBACORE	OTHER
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS	2	1,146	730	30
ON BOATS AND SHORE	2	938	40	19
TOTAL	4	2,084	770	49
VESSELS, MOTOR	1	517	309	13
GROSS TONNAGE.	22	8,956	7,405	193
BOATS, MOTOR	1	526	23	11
GEAR:				
NUMBER	4	6,318	2,988	216
HOOKS.	8	25,272	2,988	216

ITEM	LINES - CONTINUED	DREDGES, OYSTER		TONGS, OYSTER
	LONG OR SET WITH HOOKS	COMMON	SUCTION	
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS	5	-	-	-
ON BOATS AND SHORE	2	4	3	14
TOTAL	7	4	3	14
VESSELS, MOTOR	2	-	-	-
GROSS TONNAGE.	55	-	-	-
BOATS, MOTOR	1	2	1	14
GEAR:				
NUMBER	28	2	1	14
YARDS AT MOUTH	-	2	-	-
HOOKS.	2,800	-	-	-

ITEM	SHOVELS, CLAM	BY HAND, OYSTERS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER
FISHERMEN:			
ON VESSELS	-	-	1,576
ON BOATS AND SHORE	4	14	980
TOTAL	4	14	2,556
VESSELS, MOTOR	-	-	672
GROSS TONNAGE.	-	-	14,226
BOATS, MOTOR	2	14	566
GEAR, NUMBER	4	-	-

NORTHERN DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		OTTER TRAWLS		POTS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS:						
ARROWTOOTH HALIBUT	-	-	9,100	$391	-	-
CALIFORNIA HALIBUT	-	-	400	98	-	-
SAND DABS	-	-	148,600	11,849	-	-
"SOLE":						
DOVER	-	-	6,252,200	390,708	-	-
ENGLISH	-	-	1,782,400	140,232	-	-
PETRALE	-	-	1,090,600	124,834	-	-
REX	-	-	642,700	46,396	-	-
SAND	-	-	16,000	1,745	-	-
UNCLASSIFIED	-	-	300	16	-	-
OTHER	-	-	91,500	4,675	-	-
HERRING, SEA	300	$15	-	-	-	-
LINGCOD	-	-	391,600	28,067	-	-
MACKEREL, JACK	-	-	900	25	-	-
PERCH	44,200	5,110	400	44	-	-
ROCKFISHES	-	-	1,832,300	91,390	-	-
SABLEFISH	-	-	498,500	45,370	-	-
SALMON, CHINOOK OR KING	-	-	2,400	1,200	-	-
SHARKS, UNCLASSIFIED	-	-	1,100	71	-	-
SKATES	-	-	2,500	22	-	-
SMELT	230,000	12,641	-	-	-	-
TURBOT	-	-	6,000	339	-	-
WHITEBAIT	180,400	13,432	-	-	-	-
UNCLASSIFIED, BAIT AND ANIMAL FOOD	-	-	852,000	17,040	-	-
CRABS:						
DUNGENESS	-	-	-	-	984,400	$297,849
ROCK	-	-	-	-	9,300	930
SHRIMP, OCEAN	-	-	1,065,200	106,516	-	-
OCTOPUS	-	-	4,800	200	-	-
TOTAL	454,900	31,198	14,691,500	1,011,228	993,700	298,779

SPECIES	LINES		DREDGES	
	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, "SOLE", PETRALE	100	$12	-	-
HALIBUT	3,000	917	-	-
LINGCOD	66,100	5,288	-	-
ROCKFISHES	52,900	2,643	-	-
SABLEFISH	638,200	63,820	-	-
SALMON:				
CHINOOK OR KING	4,022,700	2,170,106	-	-
SILVER OR COHO	1,398,200	489,370	-	-
SKATES	-	-	28,400	$100
TUNA, ALBACORE	4,750,400	653,095	-	-
OYSTERS, PACIFIC	-	-	868,000	156,242
TOTAL	10,931,600	3,385,251	896,400	156,342

SPECIES	TONGS AND BY HAND		SHOVELS	
	POUNDS	VALUE	POUNDS	VALUE
CLAMS, HARD	-	-	1,000	$635
OYSTERS, PACIFIC	26,500	$4,770	-	-
TOTAL	26,500	4,770	1,000	635

SAN FRANCISCO DISTRICT OF CALIFORNIA
OPERATING UNITS, 1964

ITEM	HAUL SEINES, COMMON	PURSE SEINES AND LAMPARA NETS			OTTER TRAWLS	
		ANCHOVY	TUNA	OTHER	FISH	SHRIMP
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	6	3	24	-	92	11
ON BOATS AND SHORE. . .	2	3	-	3	-	-
TOTAL.	8	6	24	3	92	11
VESSELS, MOTOR.	2	1	2	-	25	3
GROSS TONNAGE	22	13	738	-	1,151	54
BOATS, MOTOR.	1	1	4	1	-	-
GEAR:						
NUMBER.	3	2	2	1	25	3
LENGTH, YARDS	700	450	1,600	250	-	-
YARDS AT MOUTH.	-	-	-	-	675	44

ITEM	POTS AND TRAPS		GILL NETS, DRIFT	TRAMMEL NETS	LINES	
					HAND	
	CRAB	FISH			ROCKFISH	OTHER
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	196	-	-	10	-	12
ON BOATS AND SHORE. . .	98	2	2	-	2	12
TOTAL.	294	2	2	10	2	24
VESSELS, MOTOR.	90	-	-	4	-	5
GROSS TONNAGE	1,344	-	-	53	-	97
BOATS, MOTOR.	61	1	1	1	1	6
GEAR:						
NUMBER.	13,345	50	1	4	2	24
SQUARE YARDS.	-	-	2,500	21,000	-	-
HOOKS	-	-	-	-	4	48

ITEM	LINES - CONTINUED				DIP, BRAIL OR SCOOP NETS
	TROLL			LONG OR SET WITH HOOKS	
	SALMON	ALBACORE	OTHER		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	921	321	19	-	-
ON BOATS AND SHORE. . .	662	4	4	4	4
TOTAL.	1,583	325	23	4	4
VESSELS, MOTOR.	413	132	9	-	-
GROSS TONNAGE	7,182	3,459	128	-	-
BOATS, MOTOR.	379	2	2	2	2
GEAR:					
NUMBER.	4,752	1,206	99	16	4
HOOKS	19,008	1,206	99	1,600	-

ITEM	HARPOONS, WHALE	DREDGES, OYSTER, COMMON	TONGS, OYSTER	DIVING OUTFITS, ABALONE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	24	-	-	-	1,270
ON BOATS AND SHORE. . .	-	4	10	12	715
TOTAL.	24	4	10	12	1,985
VESSELS, MOTOR.	5	-	-	-	527
GROSS TONNAGE	972	-	-	-	12,327
BOATS, MOTOR.	-	2	10	6	415
GEAR:					
NUMBER.	5	2	10	6	-
YARDS AT MOUTH.	-	2	-	-	-

SAN FRANCISCO DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		PURSE SEINES AND LAMPARA NETS		OTTER TRAWLS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANCHOVIES	-	-	30,100	$2,535	-	-
CARP	155,300	$9,114	-	-	-	-
FLOUNDERS:						
ARROWTOOTH HALIBUT	-	-	-	-	700	$28
CALIFORNIA HALIBUT	-	-	-	-	158,700	37,438
SAND DABS	-	-	-	-	308,800	20,244
"SOLE":						
DOVER	-	-	-	-	2,737,000	154,077
ENGLISH	-	-	-	-	1,992,400	154,435
PETRALE	-	-	-	-	948,100	118,010
REX	-	-	-	-	459,800	31,213
SAND	-	-	-	-	255,900	29,515
UNCLASSIFIED	-	-	-	-	1,600	87
OTHER	-	-	-	-	231,700	12,933
HAKE	-	-	-	-	17,500	295
HARDHEAD	153,100	40,405	-	-	-	-
HERRING, SEA	14,400	1,292	15,600	1,248	-	-
KING CROAKER	-	-	6,300	567	11,900	916
LINGCOD	-	-	-	-	238,000	18,440
MACKEREL, JACK	-	-	-	-	1,600	70
PERCH	17,200	3,300	-	-	400	79
ROCKFISHES	-	-	-	-	1,704,400	92,466
SABLEFISH	-	-	-	-	826,300	31,866
SHARKS, UNCLASSIFIED	-	-	-	-	69,300	3,550
SKATES	-	-	-	-	104,500	1,200
SMELT	29,000	3,595	58,000	7,200	-	-
TUNA:						
SKIPJACK	-	-	1,187,000	127,101	-	-
YELLOWFIN	-	-	1,511,700	232,088	-	-
TURBOT	-	-	-	-	57,900	3,048
WHITEBAIT	3,000	327	6,000	630	-	-
UNCLASSIFIED:						
FOR FOOD	300	83	-	-	-	-
BAIT AND ANIMAL FOOD	-	-	-	-	42,900	858
CRABS, DUNGENESS	-	-	-	-	14,000	4,900
SHRIMP, OCEAN	-	-	-	-	35,000	3,701
OCTOPUS	-	-	-	-	25,000	1,161
TOTAL	372,300	58,116	2,814,700	371,369	10,243,400	720,530

SPECIES	POTS AND TRAPS		GILL AND TRAMMEL NETS		LINES	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CARP	39,200	$2,352	-	-	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT	-	-	21,500	$5,160	3,500	$875
"SOLE":						
ENGLISH	-	-	-	-	300	24
SAND	-	-	-	-	400	50
UNCLASSIFIED	-	-	-	-	800	48
OTHER	-	-	1,100	66	1,000	60
HARDHEAD	3,700	1,110	-	-	-	-
KING CROAKER	-	-	5,000	500	-	-
LINGCOD	-	-	-	-	35,600	3,204
MACKEREL, JACK	-	-	-	-	100	5
ROCKFISHES	-	-	-	-	45,900	2,754
SALMON:						
CHINOOK OR KING	-	-	-	-	3,105,800	1,898,029
SILVER OR COHO	-	-	-	-	401,700	148,629
SEA BASS, WHITE	-	-	9,400	2,272	-	-
SHARKS, UNCLASSIFIED	-	-	67,000	3,550	-	-
TUNA, ALBACORE	-	-	-	-	1,336,800	184,280
TURBOT	-	-	-	-	100	6
CRABS:						
DUNGENESS	807,000	310,670	-	-	-	-
ROCK	100	9	-	-	-	-
OCTOPUS	-	-	200	20	-	-
TOTAL	850,000	314,141	104,200	11,568	4,932,000	2,237,964

(CONTINUED ON NEXT PAGE)

SAN FRANCISCO DISTRICT OF CALIFORNIA

CATCH BY GEAR, 1964 - Continued

SPECIES	DIP, BRAIL OR SCOOP NETS		HARPOONS		DREDGES	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HERRING, SEA	700	$63	-	-	-	-
SKATES	-	-	-	-	2,900	$26
SMELT	1,200	156	-	-	-	-
WHITEBAIT	1,900	209	-	-	-	-
OYSTERS, PACIFIC	-	-	-	-	41,300	7,434
WHALE PRODUCTS:						
MEAL	-	-	3,323,800	$155,173	-	-
MEAT	-	-	4,514,400	382,003	-	-
OIL:						
SPERM	-	-	396,500	25,224	-	-
WHALE	-	-	2,758,500	169,971	-	-
TOTAL	3,800	428	10,993,200	732,371	44,200	7,460

SPECIES	TONGS		DIVING OUTFITS	
	POUNDS	VALUE	POUNDS	VALUE
ABALONE	-	-	7,700	$7,238
OYSTERS:				
EASTERN	4,900	$10,277	-	-
PACIFIC	167,000	30,058	-	-
TOTAL	171,900	40,335	7,700	7,238

TUNA SEINER

MONTEREY DISTRICT OF CALIFORNIA - OPERATING UNITS, 1964

ITEM	PURSE SEINES AND LAMPARA NETS				OTTER TRAWLS, FISH
	ANCHOVY	MACKEREL AND SARDINE	SQUID	OTHER	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	22	64	58	10	30
ON BOATS AND SHORE	6	3	18	6	4
TOTAL	28	67	76	16	34
VESSELS, MOTOR	5	12	12	2	7
GROSS TONNAGE	76	313	233	46	255
BOATS, MOTOR	2	2	6	2	2
GEAR:					
NUMBER	7	13	18	4	9
LENGTH, YARDS	2,250	4,750	5,450	1,150	-
YARDS AT MOUTH	-	-	-	-	229

ITEM	POTS AND TRAPS		GILL NETS, DRIFT		TRAMMEL NETS	LINES
						HAND
	CRAB	OCTOPUS	SEA BASS	OTHER		ALBACORE
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	9	5	-	3	5	29
ON BOATS AND SHORE	6	4	10	4	8	2
TOTAL	15	9	10	7	13	31
VESSELS, MOTOR	4	2	-	1	2	7
GROSS TONNAGE	63	26	-	14	26	260
BOATS, MOTOR	4	3	5	2	4	3
GEAR:						
NUMBER	680	80	5	3	6	29
SQUARE YARDS	-	-	12,500	8,200	32,500	-
HOOKS	-	-	-	-	-	29

ITEM	LINES - CONTINUED					
	HAND - CONTINUED		TROLL			LONG OR SET WITH HOOKS
	ROCKFISH	OTHER	SALMON	ALBACORE	OTHER	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	15	6	294	390	25	3
ON BOATS AND SHORE	30	64	270	38	28	6
TOTAL	45	70	564	428	53	9
VESSELS, MOTOR	6	2	129	164	10	1
GROSS TONNAGE	68	43	2,505	3,957	218	30
BOATS, MOTOR	15	32	154	22	16	3
GEAR:						
NUMBER	45	70	1,698	1,674	234	34
HOOKS	90	140	6,792	1,674	234	3,400

ITEM	DIP, BRAIL OR SCOOP NETS	TONGS, OYSTER	SHOVELS, CLAM	DIVING OUTFITS, ABALONE	BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	5	-	-	-	-	672
ON BOATS AND SHORE	-	3	2	4	3	403
TOTAL	5	3	2	4	3	1,075
VESSELS, MOTOR	1	-	-	-	-	262
GROSS TONNAGE	12	-	-	-	-	5,935
BOATS, MOTOR	-	3	1	2	3	225
GEAR, NUMBER	4	3	2	2	-	-

MONTEREY DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1964

SPECIES	PURSE SEINES AND LAMPARA NETS		OTTER TRAWLS		POTS AND TRAPS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANCHOVIES	2,833,200	$44,315	-	-	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT	-	-	2,700	$621	-	-
SAND DABS	-	-	90,300	5,416	-	-
"SOLE":						
DOVER	-	-	67,100	3,355	-	-
ENGLISH	-	-	389,800	30,733	-	-
PETRALE	-	-	200,100	26,120	-	-
REX	-	-	183,300	9,172	-	-
SAND	-	-	700	85	-	-
OTHER	-	-	19,700	1,763	-	-
HAKE	-	-	52,900	844	-	-
HERRING, SEA	213,300	19,294	-	-	-	-
KING CROAKER	46,800	2,901	700	42	-	-
LINGCOD	-	-	19,700	1,707	-	-
MACKEREL:						
JACK	2,580,000	65,951	300	9	-	-
PACIFIC	2,500	60	-	-	-	-
PERCH	3,000	436	300	36	-	-
POMPANO	50,000	16,527	-	-	-	-
ROCKFISHES	-	-	1,863,500	100,890	-	-
SABLEFISH	-	-	205,300	7,722	-	-
SARDINE, PACIFIC	414,600	20,847	-	-	-	-
SHARKS, UNCLASSIFIED	-	-	9,400	282	-	-
SKATES	-	-	67,900	997	-	-
SMELT	24,000	1,382	-	-	-	-
TURBOT	-	-	1,100	21	-	-
UNCLASSIFIED, BAIT AND ANIMAL FOOD	-	-	46,900	937	-	-
CRABS:						
DUNGENESS	-	-	100	40	7,700	$3,280
ROCK	-	-	-	-	600	47
SHRIMP, OCEAN	-	-	-	-	5,800	4,050
OCTOPUS	-	-	200	14	6,500	650
SQUID	9,094,000	242,722	-	-	-	-
TOTAL	15,261,400	414,435	3,222,000	190,806	20,600	8,027

SPECIES	GILL AND TRAMMEL NETS		LINES		DIP, BRAIL OR SCOOP NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BONITO	-	-	1,300	$56	-	-
CABEZONE	-	-	1,900	70	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT	32,000	$7,688	8,200	2,050	-	-
SAND DABS	-	-	21,900	1,533	-	-
"SOLE":						
PETRALE	-	-	700	105	-	-
SAND	-	-	100	13	-	-
UNCLASSIFIED	10,400	1,002	5,000	500	-	-
OTHER	25,000	2,250	24,400	2,196	-	-
HAKE	-	-	3,900	80	-	-
HERRING, SEA	80,000	8,000	-	-	25,000	$2,500
KING CROAKER	40,000	2,446	-	-	-	-
LINGCOD	-	-	37,400	3,740	-	-
MACKEREL:						
JACK	-	-	-	-	3,900	156
PACIFIC	-	-	100	4	-	-
PERCH	10,000	1,400	-	-	3,500	525
POMPANO	-	-	6,200	2,480	-	-
ROCKFISHES	-	-	311,400	18,684	-	-
SABLEFISH	-	-	205,400	10,270	-	-
SALMON:						
CHINOOK OR KING	-	-	309,000	189,740	-	-
SILVER OR COHO	-	-	69,400	25,678	-	-
SEA BASS, WHITE	20,000	3,605	6,300	1,260	-	-
SHARKS, UNCLASSIFIED	32,400	1,190	-	-	-	-
SKATES	8,000	160	1,900	38	-	-
SMELT	-	-	-	-	12,800	896
SWORDFISH	-	-	900	480	-	-
TUNA:						
ALBACORE	-	-	2,272,400	312,733	-	-
SKIPJACK	-	-	100	8	-	-
UNCLASSIFIED, FOR FOOD	200	12	-	-	-	-
SQUID	-	-	-	-	7,600	228
TOTAL	258,000	27,753	3,287,900	571,718	52,800	4,305

SPECIES	TONGS AND BY HAND		SHOVELS		DIVING OUTFITS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ABALONE	-	-	-	-	100	$89
MOLLUSKS, UNCLASSIFIED	-	-	500	$114	-	-
OYSTERS, PACIFIC	8,400	$1,520	-	-	-	-
TOTAL	8,400	1,520	500	114	100	89

SANTA BARBARA DISTRICT OF CALIFORNIA - OPERATING UNITS, 1964

ITEM	PURSE SEINES AND LAMPARA NETS			OTTER TRAWLS, FISH	POTS AND TRAPS	
	ANCHOVY	MACKEREL AND SARDINE	OTHER		CRAB	LOBSTER, SPINY
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	3	217	-	62	-	18
ON BOATS AND SHORE	-	3	3	2	2	72
TOTAL	3	220	3	64	2	90
VESSELS, MOTOR	1	23	-	16	-	7
GROSS TONNAGE	11	2,224	-	640	-	110
BOATS, MOTOR	-	22	1	1	1	36
GEAR:						
NUMBER	1	24	1	17	70	2,875
LENGTH, YARDS	300	12,850	250	-	-	-
YARDS AT MOUTH	-	-	-	452	-	-

ITEM	GILL NETS, DRIFT			TRAMMEL NETS	LINES	
					HAND	
	BARRACUDA	SEA BASS	OTHER		ALBACORE	ROCKFISH
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	12	8	2	9	210	23
ON BOATS AND SHORE	2	12	8	8	14	44
TOTAL	14	20	10	17	224	67
VESSELS, MOTOR	4	3	1	3	72	8
GROSS TONNAGE	67	40	14	56	1,703	215
BOATS, MOTOR	1	6	4	4	8	22
GEAR:						
NUMBER	5	9	5	7	223	67
SQUARE YARDS	16,600	25,200	13,500	38,500	-	-
HOOKS	-	-	-	-	223	134

ITEM	LINES - CONTINUED					DIP, BRAIL OR SCOOP NETS
	HAND - CONTINUED	TROLL			LONG OR SET WITH HOOKS	
	OTHER	SALMON	ALBACORE	OTHER		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	24	134	371	11	4	6
ON BOATS AND SHORE	36	130	53	8	16	-
TOTAL	60	264	424	19	20	6
VESSELS, MOTOR	9	56	150	4	2	2
GROSS TONNAGE	153	1,218	3,239	77	24	41
BOATS, MOTOR	18	75	30	4	8	-
GEAR:						
NUMBER	60	786	1,620	72	84	6
HOOKS	120	3,144	1,620	72	8,400	-

ITEM	HARPOONS, SWORDFISH	TONGS, OYSTER	DIVING OUTFITS, ABALONE	BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	5	-	16	-	921
ON BOATS AND SHORE	-	12	192	10	502
TOTAL	5	12	208	10	1,423
VESSELS, MOTOR	2	-	6	-	289
GROSS TONNAGE	31	-	63	-	8,157
BOATS, MOTOR	-	12	96	10	291
GEAR, NUMBER	2	12	106	-	-

SANTA BARBARA DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1964

SPECIES	PURSE SEINES AND LAMPARA NETS		OTTER TRAWLS		POTS AND TRAPS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANCHOVIES	1,100	$65	-	-	-	-
BONITO	12,000	262	-	-	-	-
CABEZONE	-	-	100	$5	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT	-	-	237,000	47,400	-	-
SAND DABS	-	-	200	11	-	-
"SOLE":						
DOVER	-	-	208,900	12,350	-	-
ENGLISH	-	-	427,400	28,653	-	-
PETRALE	-	-	456,500	53,242	-	-
REX	-	-	124,900	8,615	-	-
SAND	-	-	63,100	7,336	-	-
OTHER	-	-	25,400	1,352	-	-
HAKE	-	-	37,200	586	-	-
LINGCOD	-	-	21,500	1,651	-	-
MACKEREL:						
JACK	12,178,800	238,922	-	-	-	-
PACIFIC	848,400	17,691	-	-	-	-
PERCH	-	-	3,100	620	-	-
POMPANO	2,500	528	-	-	-	-
ROCKFISHES	-	-	1,390,000	79,187	-	-
SABLEFISH	-	-	87,000	3,453	-	-
SALMON, CHINOOK OR KING	-	-	1,000	500	-	-
SARDINE, PACIFIC	840,000	24,615	-	-	-	-
SEA BASS, WHITE	-	-	200	50	-	-
SHARKS, UNCLASSIFIED	-	-	4,000	400	-	-
SKATE	-	-	4,900	230	-	-
TURBOT	-	-	28,300	1,473	-	-
UNCLASSIFIED, BAIT AND ANIMAL FOOD	-	-	796,600	15,945	-	-
CRABS:						
DUNGENESS	-	-	300	120	1,800	$818
ROCK	-	-	-	-	116,900	7,259
LOBSTER, SPINY	-	-	-	-	103,800	66,321
OCTOPUS	-	-	2,000	115	-	-
SQUID	460,000	4,416	200	2	-	-
TOTAL	14,342,800	286,499	3,919,800	263,296	222,500	74,398

SPECIES	GILL AND TRAMMEL NETS		LINES		DIP, BRAIL OR SCOOP NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BARRACUDA	56,000	$8,400	3,000	$514	-	-
CABEZONE	-	-	3,100	188	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT	130,000	33,489	4,200	966	-	-
SAND DABS	-	-	300	21	-	-
"SOLE":						
ENGLISH	-	-	400	28	-	-
PETRALE	-	-	600	72	-	-
SAND	-	-	100	12	-	-
UNCLASSIFIED	5,600	235	5,000	225	-	-
OTHER	500	30	700	42	-	-
KING CROAKER	900	35	-	-	-	-
LINGCOD	-	-	24,900	2,241	-	-
PERCH	20,000	4,332	-	-	4,900	$1,127
POMPANO	-	-	400	100	-	-
ROCKFISHES	-	-	194,300	11,658	-	-
SABLEFISH	-	-	1,200	60	-	-
SALMON:						
CHINOOK OR KING	-	-	121,600	72,044	-	-
SILVER OR COHO	-	-	49,400	17,290	-	-
SEA BASS:						
BLACK	-	-	1,000	129	-	-
WHITE	60,000	15,223	5,400	1,620	-	-
SHARKS, UNCLASSIFIED	115,500	11,771	6,000	660	-	-
SHEEPSHEAD	-	-	1,000	67	-	-
SKATE	1,000	50	-	-	-	-
SWORDFISH	-	-	1,200	600	-	-
TUNA, ALBACORE	-	-	3,891,800	538,029	-	-
YELLOWTAIL	-	-	100	7	-	-
UNCLASSIFIED, FOR FOOD	100	6	-	-	-	-
SQUID	-	-	-	-	9,800	98
TOTAL	389,600	73,571	4,315,700	646,573	14,700	1,225

SPECIES	HARPOONS		TONGS AND BY HAND		DIVING OUTFITS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SWORDFISH	14,000	$7,041	-	-	-	-
ABALONE	-	-	-	-	535,100	$405,518
OYSTERS, PACIFIC	-	-	243,500	$43,826	-	-
TOTAL	14,000	7,041	243,500	43,826	535,100	405,518

SAN PEDRO DISTRICT OF CALIFORNIA - OPERATING UNITS, 1964

ITEM	PURSE SEINES AND LAMPARA NETS					OTTER TRAWLS, FISH
	ANCHOVY	MACKEREL AND SARDINE	SQUID	TUNA	OTHER	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	64	537	3	1,114	18	5
ON BOATS AND SHORE	3	6	3	-	6	-
TOTAL	67	543	6	1,114	24	5
VESSELS, MOTOR	13	63	1	94	4	1
GROSS TONNAGE	376	4,730	32	31,497	78	29
BOATS, MOTOR	3	48	1	186	2	-
GEAR:						
NUMBER	14	65	2	94	6	1
LENGTH, YARDS	5,550	33,250	650	71,480	2,100	-
YARDS AT MOUTH	-	-	-	-	-	27

ITEM	POTS, LOBSTER, SPINY	GILL NETS, DRIFT			TRAMMEL NETS
		BARRACUDA	SEA BASS	OTHER	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	27	9	36	11	10
ON BOATS AND SHORE	112	6	24	10	10
TOTAL	139	15	60	21	20
VESSELS, MOTOR	11	3	14	5	3
GROSS TONNAGE	159	56	204	70	48
BOATS, MOTOR	56	3	12	5	5
GEAR:					
NUMBER	4,465	6	26	10	8
SQUARE YARDS	-	18,000	77,000	28,900	44,000

ITEM	LINES					
	HAND				TROLL	
	ALBACORE	ROCKFISH	YELLOWFIN AND SKIPJACK	OTHER	ALBACORE	OTHER
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	417	49	254	71	708	7
ON BOATS AND SHORE	18	52	-	96	76	12
TOTAL	435	101	254	167	784	19
VESSELS, MOTOR	108	19	33	26	280	3
GROSS TONNAGE	4,265	390	3,914	505	7,677	51
BOATS, MOTOR	30	26	28	48	44	6
GEAR:						
NUMBER	415	101	225	167	2,916	81
HOOKS	415	202	225	334	2,916	81

ITEM	LINES - CONTINUED	DIP, BRAIL OR SCOOP NETS	HARPOONS, SWORDFISH	DIVING OUTFITS, ABALONE	TOTAL, EXCLUSIVE OF DUPLICATION
	LONG OR SET WITH HOOKS				
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	19	48	14	11	2,814
ON BOATS AND SHORE	8	22	-	78	452
TOTAL	27	70	14	89	3,266
VESSELS, MOTOR	7	18	6	4	567
GROSS TONNAGE	165	395	92	51	48,843
BOATS, MOTOR	4	11	-	39	480
GEAR:					
NUMBER	102	69	6	46	-
HOOKS	10,200	-	-	-	-

SAN PEDRO DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1964

SPECIES	PURSE SEINES AND LAMPARA NETS		OTTER TRAWLS		POTS AND TRAPS		GILL AND TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANCHOVIES	2,107,300	$34,977	-	-	-	-	-	-
BARRACUDA	75,000	12,279	-	-	-	-	155,000	$26,350
BONITO	2,460,800	59,971	-	-	-	-	-	-
FLOUNDERS, CALIFORNIA HALIBUT	-	-	1,600	$320	-	-	184,000	42,609
FLYING FISH	20,000	2,400	-	-	-	-	50,000	6,347
HALFMOON	-	-	-	-	-	-	4,800	878
KING CROAKER	235,000	9,635	-	-	-	-	465,000	20,640
MACKEREL:								
JACK	74,927,200	1,804,125	-	-	-	-	-	-
PACIFIC	25,448,400	627,511	-	-	-	-	3,200	96
OPALEYE	500	79	-	-	-	-	-	-
PERCH	-	-	-	-	-	-	24,500	3,050
POMPANO	55,000	11,941	-	-	-	-	-	-
SARDINE, PACIFIC	11,686,700	431,583	-	-	-	-	-	-
SEA BASS:								
BLACK	-	-	-	-	-	-	45,400	7,307
WHITE	-	-	-	-	-	-	1,000,000	224,383
SHARKS, UNCLASSIFIED	-	-	-	-	-	-	190,000	23,738
SHEEPSHEAD	-	-	-	-	2,100	$156	-	-
SMELT	40,000	1,697	-	-	-	-	19,100	860
TUNA:								
ALBACORE	336,000	54,096	-	-	-	-	-	-
BLUEFIN	20,441,500	2,486,557	-	-	-	-	-	-
SKIPJACK	46,030,900	4,573,849	-	-	-	-	-	-
YELLOWFIN	112,194,300	14,944,414	-	-	-	-	-	-
YELLOWTAIL	53,700	6,121	-	-	-	-	-	-
UNCLASSIFIED, FOR FOOD	50,000	1,000	-	-	-	-	50,000	1,000
CRAB, ROCK	-	-	-	-	130,200	16,157	-	-
LOBSTER, SPINY	-	-	-	-	163,800	116,251	-	-
SQUID	6,600,000	81,602	-	-	-	-	-	-
TOTAL	302,762,300	25,143,837	1,600	320	296,100	132,564	2,191,000	357,258

SPECIES	LINES		DIP, BRAIL OR SCOOP NETS		HARPOONS		DIVING OUTFITS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BARRACUDA	28,900	$4,913	-	-	-	-	-	-
CABEZONE	100	11	-	-	-	-	-	-
CABRILLA	13,600	2,190	-	-	-	-	-	-
FLOUNDERS:								
CALIFORNIA HALIBUT	198,500	47,640	-	-	-	-	-	-
SAND DABS	300	57	-	-	-	-	-	-
"SOLE", UNCLASSIFIED	2,300	241	-	-	-	-	-	-
FLYING FISH	-	-	15,900	$2,067	-	-	-	-
GROUPERS	124,200	27,445	-	-	-	-	-	-
HALFMOON	5,000	1,000	-	-	-	-	-	-
KING CROAKER	23,700	1,185	-	-	-	-	-	-
LINGCOD	1,200	115	-	-	-	-	-	-
MACKEREL:								
JACK	200	6	-	-	-	-	-	-
PACIFIC	600	18	521,300	20,852	-	-	-	-
OPALEYE	1,500	255	-	-	-	-	-	-
POMPANO	6,800	1,564	-	-	-	-	-	-
ROCKFISHES	479,400	60,918	-	-	-	-	-	-
SABLEFISH	900	95	-	-	-	-	-	-
SCULPIN	16,100	5,401	-	-	-	-	-	-
SEA BASS:								
BLACK	100,000	16,092	-	-	-	-	-	-
WHITE	81,500	20,375	-	-	-	-	-	-
SHARKS, UNCLASSIFIED	29,400	4,410	-	-	-	-	-	-
SHEEPSHEAD	3,000	222	-	-	-	-	-	-
SKATE	700	69	-	-	-	-	-	-
SWORDFISH	25,100	14,317	-	-	120,000	$68,450	-	-
TUNA:								
ALBACORE	19,853,800	3,207,472	-	-	-	-	-	-
BLUEFIN	30,900	3,757	-	-	-	-	-	-
SKIPJACK	6,178,600	613,934	-	-	-	-	-	-
YELLOWFIN	7,599,900	1,012,230	-	-	-	-	-	-
YELLOWTAIL	18,000	2,132	-	-	-	-	-	-
UNCLASSIFIED, FOR FOOD	46,500	1,164	-	-	-	-	-	-
ABALONE	-	-	-	-	-	-	224,800	$137,297
SQUID	-	-	258,100	3,355	-	-	-	-
TOTAL	34,870,700	5,049,228	795,300	26,274	120,000	68,450	224,800	137,297

SAN DIEGO DISTRICT OF CALIFORNIA - OPERATING UNITS, 1964

ITEM	PURSE SEINES AND LAMPARA NETS				POTS, LOBSTER, SPINY
	MACKEREL AND SARDINE	SQUID	TUNA	OTHER	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	12	5	251	2	15
ON BOATS AND SHORE. . . .	-	-	-	3	178
TOTAL.	12	5	251	5	193
VESSELS, MOTOR.	3	1	20	1	6
GROSS TONNAGE	107	35	8,029	17	242
BOATS, MOTOR.	-	-	40	1	89
GEAR:					
NUMBER.	3	1	20	2	6,260
LENGTH, YARDS	1,200	400	16,150	500	-

ITEM	GILL NETS, DRIFT		TRAMMEL NETS	LINES	
				HAND	
	SEA BASS	OTHER		ALBACORE	ROCKFISH
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	15	3	15	401	22
ON BOATS AND SHORE. . . .	22	8	6	60	64
TOTAL.	37	11	21	461	86
VESSELS, MOTOR.	5	1	5	110	8
GROSS TONNAGE	96	20	96	3,763	148
BOATS, MOTOR.	11	4	3	43	32
GEAR:					
NUMBER.	16	5	8	444	86
SQUARE YARDS.	44,700	13,500	42,500	-	-
HOOKS	-	-	-	444	172

ITEM	LINES - CONTINUED				
	HAND - CONTINUED		TROLL		LONG OR SET WITH HOOKS
	YELLOWFIN AND SKIPJACK	OTHER	ALBACORE	OTHER	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	82	32	313	-	7
ON BOATS AND SHORE. . . .	12	98	99	12	20
TOTAL.	94	130	412	12	27
VESSELS, MOTOR.	10	12	124	-	3
GROSS TONNAGE	1,206	247	2,992	-	55
BOATS, MOTOR.	12	49	57	6	10
GEAR:					
NUMBER.	81	130	1,629	54	110
HOOKS	81	260	1,629	54	11,000

ITEM	DIP, BRAIL OR SCOOP NETS	HARPOONS, SWORDFISH	DIVING OUTFITS, ABALONE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS.	2	37	6	992
ON BOATS AND SHORE. . . .	-	-	30	425
TOTAL.	2	37	36	1,417
VESSELS, MOTOR.	1	3	2	253
GROSS TONNAGE	12	1,165	29	1,577
BOATS, MOTOR.	-	-	15	271
GEAR, NUMBER.	2	3	19	-

SAN DIEGO DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1964

SPECIES	PURSE SEINES AND LAMPARA NETS		POTS		GILL AND TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANCHOVIES.	3,400	$169	-	-	-	-
BARRACUDA.	8,100	1,193	-	-	6,500	$1,040
BONITO	138,300	5,406	-	-	-	-
FLOUNDERS, CALIFORNIA HALIBUT.	-	-	-	-	143,800	29,428
HALFMOON	200	25	-	-	-	-
KING CROAKER	1,000	79	-	-	2,000	200
MACKEREL, PACIFIC.	1,200	71	-	-	200	12
PERCH.	500	77	-	-	1,000	160
POMPANO.	300	70	-	-	-	-
SARDINES, PACIFIC.	196,200	23,097	-	-	-	-
SEA BASS:						
BLACK.	-	-	-	-	16,400	2,478
WHITE.	-	-	-	-	170,000	32,903
SHARKS, UNCLASSIFIED . . .	-	-	-	-	100,000	10,278
SHEEPSHEAD	-	-	3,800	$312	-	-
TUNA:						
ALBACORE	52,000	8,320	-	-	-	-
BLUEFIN.	2,655,600	330,879	-	-	-	-
SKIPJACK	10,750,900	1,110,295	-	-	-	-
YELLOWFIN.	26,410,100	3,480,056	-	-	-	-
YELLOWTAIL	30,600	2,664	-	-	-	-
UNCLASSIFIED, FOR FOOD . .	500	55	-	-	500	55
CRABS, ROCK.	-	-	6,800	322	-	-
LOBSTER, SPINY	-	-	179,100	126,306	-	-
SQUID.	3,900	97	-	-	-	-
TOTAL	40,252,800	4,962,553	189,700	126,940	440,400	76,554

SPECIES	LINES		DIP, BRAIL OR SCOOP NETS	
	POUNDS	VALUE	POUNDS	VALUE
BARRACUDA.	1,700	$272	-	-
FLOUNDERS:				
CALIFORNIA HALIBUT . . .	150,000	33,000	-	-
SAND DABS.	19,100	4,995	-	-
"SOLE":				
PETRALE.	1,000	246	-	-
UNCLASSIFIED	16,400	4,063	-	-
GROUPERS	39,800	9,584	-	-
KING CROAKER	300	30	-	-
LINGCOD.	300	28	-	-
MACKEREL, PACIFIC.	1,500	90	500	$30
PERCH.	200	32	-	-
POMPANO.	100	25	-	-
ROCKFISHES	243,900	29,526	-	-
SABLEFISH.	600	47	-	-
SCULPIN.	78,100	21,213	-	-
SEA BASS:				
BLACK.	60,000	9,900	-	-
WHITE.	38,300	7,660	-	-
SHARKS, UNCLASSIFIED . . .	22,400	2,688	-	-
SHEEPSHEAD	8,000	655	-	-
SWORDFISH.	1,800	979	-	-
TUNA:				
ALBACORE	10,057,700	1,621,688	-	-
BLUEFIN.	43,200	5,400	-	-
SKIPJACK	1,911,400	199,167	-	-
YELLOWFIN.	1,304,100	180,748	-	-
WAHOO.	4,200	849	-	-
YELLOWTAIL	7,700	770	-	-
UNCLASSIFIED, FOR FOOD . .	300	36	-	-
TOTAL	14,012,100	2,133,691	500	30

SPECIES	HARPOONS		DIVING OUTFITS	
	POUNDS	VALUE	POUNDS	VALUE
SWORDFISH.	20,000	$10,873	-	-
ABALONE.	-	-	48,100	$22,669
TOTAL	20,000	10,873	48,100	22,669

LANDINGS BY HALIBUT FLEET AT SEATTLE, WASHINGTON

Halibut landings at Seattle were 7.9 million pounds (dressed weight) valued at $2.0 million. This was a decline of 2.7 million pounds (25 percent) and $445,000 (18 percent) compared with the previous year. Landings of halibut from fishing grounds west of Cape Spencer (6.2 million pounds) and south of Cape Spencer (1.7 million pounds) were 2.0 million pounds and 683,000 pounds less, respectively, than in 1963.

Landings of sablefish from grounds off Cape Spencer (1.2 million pounds) showed a slight decline from the previous year.

The following tables contain a summary of the landings of dressed halibut and sablefish at Seattle by the U. S. halibut fleet. These data are not directly comparable with the State and sectional tabulations, since the weights in those tables represent the round weight of fish landed.

LANDINGS BY THE HALIBUT FLEET AT SEATTLE, BY FISHING GROUNDS, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

FISHING GROUNDS	TRIPS	HALIBUT (DRESSED)					
		CHICKEN		MEDIUM		LARGE	
	NUMBER	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
WEST OF CAPE SPENCER. .	112	64	14	3,524	887	2,120	539
SOUTH OF CAPE SPENCER .	137	157	36	1,222	342	220	61
TOTAL.	249	221	50	4,746	1,229	2,340	600

FISHING GROUNDS	HALIBUT (DRESSED) - CONTINUED				SABLEFISH		TOTAL	
	NO. 2 MEDIUM		NO. 2 LARGE					
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
WEST OF CAPE SPENCER. .	389	87	90	20	1	(1)	6,188	1,547
SOUTH OF CAPE SPENCER .	61	14	4	1	1,194	268	2,858	722
TOTAL.	450	101	94	21	1,195	268	9,046	2,269

1/ LESS THAN $500.
SEE NOTE AT END OF NEXT TABLE.

LANDINGS BY THE HALIBUT FLEET AT SEATTLE, BY MONTHS, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

MONTHS	TRIPS	HALIBUT (DRESSED)					
		CHICKEN		MEDIUM		LARGE	
	NUMBER	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
APRIL	22	7	1	589	138	135	32
MAY	49	29	6	1,505	358	657	156
JUNE.	42	59	14	918	238	568	144
JULY.	24	56	13	499	138	195	53
AUGUST.	34	52	12	849	239	471	125
SEPTEMBER	36	16	4	222	67	132	38
OCTOBER	34	2	(1)	158	49	182	52
NOVEMBER.	8	(1)	(1)	6	2	-	-
TOTAL.	249	221	50	4,746	1,229	2,340	600

MONTHS	HALIBUT (DRESSED) - CONTINUED				SABLEFISH		TOTAL	
	NO. 2 MEDIUM		NO. 2 LARGE					
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
APRIL	70	14	16	3	-	-	817	188
MAY	89	18	12	2	30	5	2,322	545
JUNE.	79	17	15	3	47	9	1,686	425
JULY.	38	9	4	1	74	17	866	231
AUGUST.	87	21	20	5	120	27	1,599	429
SEPTEMBER	32	8	9	2	411	91	822	210
OCTOBER	55	14	18	5	425	97	840	217
NOVEMBER.	(1)	(1)	(1)	(1)	88	22	94	24
TOTAL.	450	101	94	21	1,195	268	9,046	2,269

1/ LESS THAN 500 POUNDS OR $500.
NOTE:--THE 1964 PACIFIC HALIBUT FISHING SEASON OPENED ON MARCH 25 IN AREA 3B (NORTH) AND CLOSED ON OCTOBER 15. AREA 3B (SOUTH) OPENED TO HALIBUT FISHING ON APRIL 6 AND CLOSED ON OCTOBER 15. AREAS 1 AND 2 OPENED TO HALIBUT FISHING ON MAY 1 AND CLOSED ON SEPTEMBER 15. AREA 3A OPENED TO HALIBUT FISHING ON MAY 1 AND CLOSED ON AUGUST 15.

WHALING, 1964

During the whaling season, the Del Monte Fishing Company and the Golden Gate Fishing Company operated their two shore stations on Point San Pablo, Calif., and Bioproducts, Inc., operated one plant at Warrenton, Oreg. As in previous years, Del Monte used the catcher boats Allen Cody, Dennis Gayle, and Donna Mae, Golden Gate used the Lynnann and Sioux City, and Bioproducts used the Tom and Al. The whaling season remained the same as in previous years--April 1 to November 30, inclusive, for sperm whales and April 16 to October 15, inclusive, for other whales.

In 1964, 274 whales were caught--15 more than in the previous year. The season was marked by a large influx of fin whales into the area off San Francisco--apparently because of an abundance of krill (Euphausia pacifica), their preferred food. As a result of their unusually long stay in these waters, 147 whales were taken--126 more than in 1963 and the largest catch of fin whales in 25 years. In 1964, only 13 sei whales were captured, compared with 97 in 1963. The 27 humpbacks taken in 1964 were about one-half the 1963 production because of the seriously depleted stocks. The catch of 64 sperm whales was the third highest in 25 years, exceeded only by the catch of 77 and 104 in 1963 and 1961, respectively. In 1964, the usual autumn passage of a few blue whales off the coast did not occur, despite an abundance of food.

In addition to the species regularly taken, 20 gray whales were captured for research purposes by the California stations under a special permit issued to the Director of the Bureau's Marine Mammal Biological Laboratory.

The catch was processed into 3.3 million pounds of meal, 3.2 million pounds of oil, and 4.5 million pounds of meat (for use as canned or frozen animal food). These products were valued at $734,000 to the producer--an increase of 44 percent in volume and 35 percent in value compared with 1963.

The Scientific Committee of the International Whaling Commission, through its North Pacific Working Group, continued studies aimed at formulating rational management plans for North Pacific whale stocks. Scientists of the United States, Canada, Japan, and the Union of Soviet Socialist Republics cooperated in these studies.

WHALE CATCH, 1964

MONTH	BLUE	BOTTLE-NOSE	FIN	GRAY 1/	HUMP-BACK	KILLER	SEI	SPERM	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
MARCH	-	-	-	20	-	-	-	-	20
APRIL	-	-	-	-	7	-	-	11	18
MAY	-	-	20	-	13	-	-	11	44
JUNE	-	-	13	-	7	-	-	3	23
JULY	2	-	63	-	-	-	2	-	67
AUGUST	-	-	24	-	-	-	3	6	33
SEPTEMBER	-	1	25	-	-	-	7	9	42
OCTOBER	-	-	2	-	-	-	1	16	19
NOVEMBER	-	-	-	-	-	-	-	8	8
TOTAL	2	1	147	20	27	-	13	64	274

1/ GRAY WHALES WERE TAKEN UNDER A SPECIAL SCIENTIFIC PERMIT.

WHALE PRODUCTS, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

ITEM	QUANTITY	VALUE
MEAL	3,328	155
MEAT	4,522	383
OIL:		
SPERM	401	26
WHALE	2,758	170
TOTAL	11,009	734

NOTE:--TO CONVERT POUNDS OF OIL TO GALLONS, DIVIDE BY 7.75.

FUR SEAL INDUSTRY OF THE PRIBILOF ISLANDS

Fur sealing operations on the Pribilof Islands in 1964 produced 64,206 sealskins, 21,048 less than in the previous year. Male seals accounted for 48,223 skins or 75 percent of the take compared with less than 50 percent in 1963. A more normal proportion of 3-year-old bachelors occurred in 1964-- 61 percent of the male harvest compared with 45 percent in 1963. The greater availability of 3-year-olds was responsible for the increase in the number of male seals taken. The 48-3/4-inch maximum length was again waived, and all bachelor males that had not matured were taken and processed regardless of size. This reduced the excess number of idle bulls and provided several thousand additional sealskins. Most of the over-size bachelors had choice commercial quality furs.

The 8-year span of seal herd reduction by the annual removal of large numbers of females was terminated, and only 15,983 female skins were taken. All female sealskins were used in 1964. The previous annual herd reduction quota of 43,750 females was reduced to only 9,000 to 18,000, to stabilize the herd at the calculated optimum number. Of the total female kill, 12,594 (79 percent) were immature animals, which produce fur adaptable to processing the same as males. The remaining 3,389 mature females, although less desirable for processed fur, have acquired increased value because their furs are processed by a new method of close shearing.

The take of sealskins on St. George Island was 24 percent of the total harvest. Over a long-term period, it has averaged 20 percent.

For the second year, sealskin curing operations were under government supervision. Most of the 71-man crew in the skin-curing plants were Pribilof and Aleutian Islands residents. Only 26 men were from mainland areas. Sealing operations in the field were carried on entirely by local crews that are skilled in the work.

Seal pup mortality was again checked on the rookeries. Deaths on St. Paul Island were calculated to be 22,651 and on St. George Island, 2,391. This was only 63 percent of the mortality in 1963 and is a further indication that the survival of 3-year-old seals will continue to improve.

CLASSES OF SEALS TAKEN ON THE PRIBILOF ISLANDS, BY AGE GROUP, 1964

ITEM	ST. PAUL ISLAND		ST. GEORGE ISLAND	
	MALE	FEMALE	MALE	FEMALE
		.PERCENTAGE OF KILL.		
BY AGE:				
2-YEAR OLDS	7	3	6	2
3- " "	60	21	64	29
4- " "	28	22	25	24
5- " "	5	23	5	28
6- " "	-	13	-	10
7- " "	-	4	-	2
8- " " AND OLDER	-	14	-	5
TOTAL	100	100	100	100

NOTE:--PERCENTAGE OF MALE SEALS FOR SEASON JULY 1 TO AUGUST 7. PERCENTAGE OF FEMALE SEALS FOR SEASON AUGUST 14 TO 28.

A 5-year contract to utilize fur seal carcasses from which pelts had been stripped was awarded to Pacific Fur Foods, Inc. of Boring, Oreg. A 500-ton capacity sharp-freezer and cold-storage unit was installed at St. Paul Island in time to process most of the season's production on that Island. The firm processed 1,635,776 pounds of seal carcasses, mostly into frozen ground meat suitable for mink feed. Although the government received only $256 from the sale of seal carcasses, it was reimbursed $28,945 for transportation and local services furnished the mink food company.

DISTRIBUTION OF TAKE OF SEALSKINS, 1964

The fur seal treaty provides that Canada and Japan each receive 15 percent of the skins taken on the Pribilof Islands. The distribution of sealskins follows:

ITEM	UNITED STATES	CANADA	JAPAN	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER
FROM ST. PAUL ISLAND:				
MALE SKINS.	25,922	5,555	5,555	37,032
FEMALE SKINS.	8,097	1,735	1,735	11,567
TOTAL	34,019	7,290	7,290	48,599
FROM ST. GEORGE ISLAND:				
MALE SKINS.	7,833	1,679	1,679	11,191
FEMALE SKINS.	3,092	662	662	4,416
TOTAL	10,925	2,341	2,341	15,607
FROM BOTH ISLANDS:				
MALE SKINS.	33,755	7,234	7,234	48,223
FEMALE SKINS.	11,189	2,397	2,397	15,983
GRAND TOTAL	44,944	9,631	9,631	64,206

The standard packing formula used in 1964 was 80 male skins, 80 immature female skins, and 65 mature female skins per barrel. This was a departure from the previous year, when all female skins were packed 65 per barrel. A total of 364 barrels of blubber was salted for subsequent extraction of oil for tanning sealskins. The season's total sealskin production was transported to Seattle on the Bureau's new vessel Pribilof . The skins for the United States and Canada were put in storage pending selection of a processing contractor, while Japan elected to send its skins to the Fouke Fur Company for early tanning.

SALE OF SEALSKINS, 1964

A total of 62,579 sealskins was sold for the account of the U.S. Government at the two public auctions held in Greenville, S.C., during 1964. An additional 76 skins were sold at special sales. Gross receipts from all 1964 sales were $4,601,365, of which $2,879,321 accrued to the Government after processing costs were deducted for the account of the contractor. Offerings consisted of 46,416 conventionally processed skins, which yielded $3,844,624, and 16,239 female skins, which sold for $756,741. The latter included 12,551 LAKODA sheared skins which sold for $664,099 and 3,688 natural sheared which brought $92,642. Average prices received were $82.83 for conventional-process, $52.91 for LAKODA, and $25.12 for natural sheared.

DISTRIBUTION OF PRIBILOF ISLANDS RECEIPTS, FISCAL YEAR, 1964

ITEM	AMOUNT
COST OF HANDLING, PROCESSING, DYEING AND DRESSING	$1,845,990
COST OF ADMINISTRATION OF PRIBILOF ISLANDS.	2,604,830
PAYMENT TO THE STATE OF ALASKA.	963,635
NET RECEIPTS TO U. S. GOVERNMENT.	412,986
TOTAL	5,827,441

NOTE:--FIGURES SHOWN IN THE ABOVE TABLE ARE COMPUTED ON A FISCAL YEAR BASIS. THOSE QUOTED IN THE PRECEDING NARRATIVE ARE ON A CALENDAR YEAR BASIS.

SECTION 8 - GREAT LAKES FISHERIES

The United States and Canadian catch of fresh-water fish from the five Great Lakes, Lake St. Clair, and three of the international lakes of northern Minnesota and Canada was 95 million pounds--11 million pounds less than in 1963. Landings of carp, chubs, lake herring, yellow perch, and yellow pike were down substantially. Alewives, however, increased from 5.4 million pounds in 1963 to 11.7 million, and smelt rose from 13.7 to 16.4 million pounds.

Canadian production declined for the second consecutive year. The 1964 catch of 37.9 million pounds was 9.0 million pounds less than in 1963, because of a 9.6-million-pound decrease in the yellow perch catch in Lake Erie. Since 1962 the yellow perch production in Lake Erie has declined from 20.9 million pounds to 8.4 million pounds. Total Lake Ontario landings increased slightly, and Lake Huron catches rose 380,000 pounds. Lake St. Clair, Lake Superior, and the international lakes showed small decreases.

Commercial landings in U. S. waters of the Great Lakes and international lakes were 56.7 million pounds--4 percent less than in 1963; however, the value increased $283,000. Of the 34 commercial species landed, the average price per pound received by the fishermen increased for 21 species, decreased for 11, and remained the same for 2. Yellow perch increased $324,000 compared with 1963, although landings were down 3.0 million pounds. The demand for this species caused the price rise from 9 cents a pound in 1963 to nearly 17 cents in 1964. Michigan was the largest producer with 19.8 million pounds, followed by Wisconsin, 18.6; Ohio, 11.2; and Minnesota, 5.2 million pounds. The Great Lakes in order of production were: Michigan, Erie, Superior, Huron, and Ontario. The catch in Lake of the Woods (3.0 million pounds) accounted for 96 percent of the catch in the international lakes.

Fishermen and vessels. In 1964, 2,533 fishermen, 386 vessels of 5 net tons and over, and 1,178 other craft were employed in the U. S. commercial fisheries of the Great Lakes. Fishermen on vessels averaged 97 man-days of fishing, and the average vessel operated 92 days. Fishermen on other craft averaged 41 man-days of fishing, whereas these smaller craft operated an average of 35 days. Fishermen days of operation totaled 151,376, and craft days equaled 73,298--a decrease of 19,612 fishermen days and 8,431 craft days compared with 1963.

Fishing effort. Owing to the decline in days of operation, total fishing effort decreased for nearly all gears. Only two major gears showed appreciable increases in use: 1-1/4- to 2-inch-mesh gill nets, 4- to 7-inch gill net lifts, and otter trawls. More abundant whitefish in Lake Michigan caused the rise in total fishing effort for the 4- to 7-inch-mesh gill nets. Failure of the yellow pike fishery to make a comeback in Lake Erie and in Saginaw Bay of Lake Huron was largely responsible for a decline in trap net lifts. The effects of bacterial contaminations late in 1963 continued to hamper the sale of smoked fish for at least the first 6 months of 1964, thus causing a decrease in the total fishing effort in the 2-1/8- to 3-7/8-inch-mesh gill net fishery. This gear is a primary producer of chubs that are used exclusively for smoking.

U. S. catch by lake.

Lake Ontario. The Lake Ontario catch of 267,000 pounds was 15 percent more than in 1963. Lake Ontario has not been a large producer--its average catch has been less than 400,000 pounds during the past 25 years.

Lake Erie. Production for 1964 (13.4 million pounds) was 3.9 million pounds less than 1963. Yellow perch landings were only 1.5 million pounds--down 4.3 million pounds from 1963. Both carp and yellow pike landings declined. Sheepshead and white bass production increased.

Lake Huron. The commercial catch of 4.1 million pounds was 1.1 million pounds less than in 1963. Carp and chub catches were down, while yellow perch production increased.

Lake Michigan. The catch of 26.2 million pounds was 5.2 million pounds more than in 1963. Alewife landings rose 6.3 million pounds; common whitefish, 492,000 pounds; and yellow perch, 963,000 pounds. Catches of chubs fell 2.3 million pounds.

Lake Superior. Landings of 9.6 million pounds were 2.5 million pounds less than in 1963. Chubs decreased 799,000 pounds and lake herring, 2.2 million pounds, whereas smelt increased 527,000 pounds.

International lakes. The combined U. S. catch from the international lakes decreased slightly. Tullibee production was higher; small decreases were noted for most other species.

Sea lamprey control. To evaluate the effectiveness of the chemical control of lampreys, the Bureau operated 22 electrical barriers in streams on the south shore of Lake Superior. The take of spawning-run sea lampreys (11,969) remained low compared with the 1961 peak when 67,230 were captured. Eight streams along the south shore of Lake Superior and 15 tributaries of Lake Michigan were initially treated with a selective lampricide, and 29 streams were re-treated. In 1964, 1,781 miles of stream were treated. Surveys to determine if the streams were producing sea lampreys were made on 32 Lake Superior and 29 Lake Michigan tributaries. Sampling the abundance of lake trout shows that these fish are continuing to increase, thus demonstrating the effectiveness of the selective chemical destruction of sea lamprey larvae in Lake Superior tributaries. Under the coordination of the Great Lakes Fishery Commission, the United States and Canada released 2.6 million yearling lake trout in Lake Superior.

Research. The effects of the bacterial contamination of smoked fish that occurred late in 1963 were still noticeable in the chub fishery and the smoked fish industry. Two important steps were taken to revive these commercial enterprises:

(1) Since frozen chub inventories were high and there was little demand for smoked chub, fishing was unprofitable. Under section 4b of P.L. 88-309, holders of frozen chubs were paid to remove these fish from human food channels. All chub payments were processed in the field by December 31. In all, 1.7 million pounds of chubs were diverted to uses other than human food at a cost of $283,084.

(2) The Bureau initiated inhouse and contract research programs on bacteria in smoked fish. These programs included:

(a) Awards of research contracts to study microbiological and processing aspects of smoking fish.

(b) Publication of data on studies related to new methods of smoking and processing chub.

(c) Preparation of sanitary guidelines for smoked fish plants.

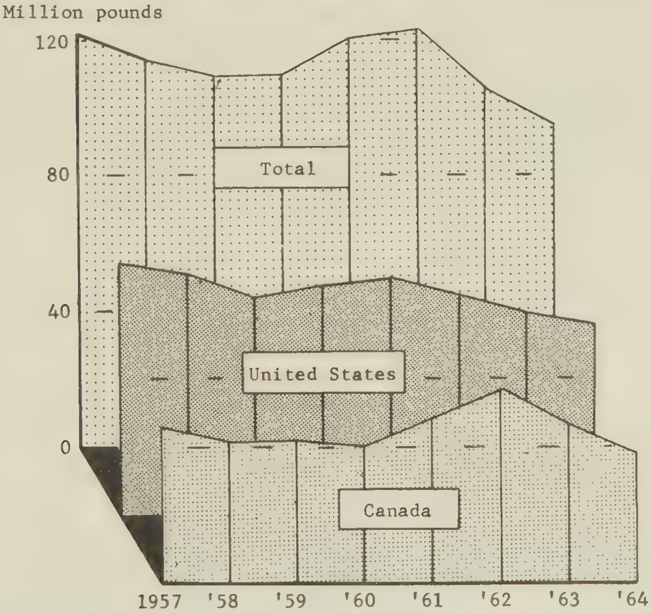
(d) Establishment of a completely equipped isolated laboratory for inhouse research.

Four research vessels, Cisco, Kaho, Musky II, and Siscowet continued to operate on the Great Lakes in support of research studies aimed at management, conservation, and development of the Lake fisheries.

Other information. Condensed summary data on the catch of the Great Lakes fisheries appearing on the following pages have been previously published in Current Fishery Statistics No. 3954. Seasonal variations in the catch of fish landed in Wisconsin, Ohio, and Michigan can be ascertained from monthly landing bulletins issued currently in cooperation with the fishery departments of these States. Additional specific data on Great Lakes fisheries may be found in the daily, monthly, and annual reports published by the Bureau's Fishery Market News Service office in Chicago, Ill.

Acknowledgments. The following organizations assisted in the collection of data appearing in this section: Dominion Bureau of Statistics of Canada; Illinois Department of Conservation, Division of Fisheries; Indiana Department of Conservation, Division of Fish and Game, Section of Fish Management; Michigan Department of Conservation, Fish Section, Great Lakes Fisheries; Minnesota Department of Conservation, Division of Game and Fish, Section of Fisheries; New York Conservation Department, Division of Fish and Game; Ohio Department of Natural Resources, Division of Wildlife, Section of Fish Management; Pennsylvania Fish Commission; and the Wisconsin Conservation Department, Fish Management Division.

UNITED STATES AND CANADIAN CATCH, 1957-64



SUMMARY OF UNITED STATES AND CANADIAN CATCH, 1964

(THOUSANDS OF POUNDS)

SPECIES	LAKE ONTARIO			LAKE ERIE		
	UNITED STATES	CANADA	TOTAL	UNITED STATES	CANADA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
ALEWIVES	(1)	-	(1)	-	-	-
BLUE PIKE	-	-	-	(1)	(1)	(1)
BOWFIN	2	6	8	-	20	20
BUFFALOFISH	-	-	-	121	-	121
BULLHEADS	44	147	191	127	34	161
BURBOT	(1)	-	(1)	3	1	4
CARP	39	270	309	2,909	187	3,096
CATFISH	1	20	21	1,164	171	1,335
CHUBS	-	(1)	(1)	-	-	-
CISCO	8	-	8	1	-	1
CRAPPIE	1	-	1	-	-	-
EELS, COMMON	33	246	279	-	(1)	(1)
GARFISH	(1)	-	-	-	-	-
GIZZARD SHAD	-	-	-	11	-	11
GOLDFISH	-	-	-	159	-	159
LAKE HERRING	-	38	38	-	2	2
LAKE TROUT	-	(1)	(1)	-	(1)	(1)
MOONEYE OR GOLDEYE	-	-	-	(1)	-	(1)
PIKE OR PICKEREL	(1)	32	32	-	2	2
QUILLBACK	-	-	-	(1)	-	(1)
ROCK BASS	4	40	44	(1)	66	66
SAUGER	-	3	3	(1)	(1)	(1)
SHEEPSHEAD	(1)	34	34	4,549	752	5,301
SMELT	1	128	129	446	12,735	13,181
STURGEON	(1)	6	6	1	1	2
SUCKERS	13	37	50	240	88	328
SUNFISH	12	192	204	-	24	24
WHITE BASS	4	70	74	1,535	1,723	3,258
WHITEFISH, COMMON	16	125	141	3	3	6
WHITE PERCH	3	271	274	-	-	-
YELLOW PERCH	83	235	318	1,520	8,351	9,871
YELLOW PIKE	3	66	69	565	599	1,164
UNCLASSIFIED, FOR ANIMAL FOOD	-	49	49	-	622	622
TOTAL	267	2,015	2,282	13,354	25,381	38,735

SPECIES	LAKE HURON			LAKE MICHIGAN	LAKE SUPERIOR		
	UNITED STATES	CANADA	TOTAL	UNITED STATES	UNITED STATES	CANADA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
ALEWIVES	1	-	1	11,744	(1)	-	(1)
BOWFIN	(1)	(1)	(1)	(1)	-	-	-
BUFFALOFISH	(1)	-	(1)	-	-	-	-
BULLHEADS	8	(1)	8	31	(1)	(1)	(1)
BURBOT	-	1	1	15	7	9	16
CARP	1,003	42	1,045	1,320	1	(1)	1
CATFISH	153	18	171	(1)	-	-	-
CHUBS	1,256	1,563	2,819	5,172	789	42	831
CRAPPIE	1	-	1	-	-	-	-
GIZZARD SHAD	-	-	-	(1)	-	-	-
LAKE HERRING	40	11	51	34	6,187	1,935	8,122
LAKE TROUT	-	2	2	(1)	102	106	208
PIKE OR PICKEREL	36	37	73	37	(1)	4	4
QUILLBACK	9	-	9	-	-	-	-
ROCK BASS	9	1	10	(1)	-	(1)	(1)
SAUGER	(1)	(1)	(1)	1	(1)	59	59
SCULPIN	-	-	-	2	-	-	-
SHEEPSHEAD	22	33	55	(1)	-	-	-
SMELT	32	(1)	32	969	2,020	20	2,040
STURGEON	1	18	19	3	(1)	1	1
SUCKERS	438	211	649	215	45	65	110
WHITE BASS	3	13	16	-	-	-	-
WHITEFISH:							
COMMON	165	645	810	777	426	133	559
MENOMINEE	3	14	17	11	48	56	104
YELLOW PERCH	836	709	1,545	5,835	17	28	45
YELLOW PIKE	79	394	473	35	(1)	216	216
UNCLASSIFIED, FOR ANIMAL FOOD	-	255	255	-	-	8	8
TOTAL	4,095	3,967	8,062	26,201	9,642	2,682	12,324

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF UNITED STATES AND CANADIAN CATCH, 1964 - Continued

(THOUSANDS OF POUNDS)

SPECIES	TOTAL, GREAT LAKES			LAKE ST. CLAIR		
	UNITED STATES	CANADA	TOTAL	UNITED STATES 2/	CANADA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
ALEWIVES	11,745	-	11,745	-	-	-
BLUE PIKE	(1)	(1)	(1)	-	-	-
BOWFIN	2	26	28	-	(1)	(1)
BUFFALOFISH	121	-	121	-	--	-
BULLHEADS	210	181	391	-	11	11
BURBOT	25	11	36	-	-	-
CARP	5,272	499	5,771	8	211	219
CATFISH	1,318	209	1,527	-	62	62
CHUBS	7,217	1,605	8,822	-	-	-
CISCO	9	-	9	-	-	-
CRAPPIE	2	-	2	-	-	-
EELS, COMMON	33	246	279	-	-	-
GARFISH	(1)	-	(1)	-	-	-
GIZZARD SHAD	11	-	11	-	-	-
GOLDFISH	159	-	159	-	-	-
LAKE HERRING	6,261	1,986	8,247	-	-	-
LAKE TROUT	102	108	210	-	-	-
MOONEYE OR GOLDEYE	(1)	-	(1)	-	-	-
PIKE OR PICKEREL	73	75	148	-	24	24
QUILLBACK	9	-	9	-	-	-
ROCK BASS	13	107	120	-	35	35
SAUGER	1	62	63	-	(1)	(1)
SCULPIN	2	-	2	-	-	-
SHEEPSHEAD	4,571	819	5,390	-	7	7
SMELT	3,468	12,883	16,351	-	-	-
STURGEON	5	26	31	-	9	9
SUCKERS	951	401	1,352	-	90	90
SUNFISH	12	216	228	-	57	57
WHITE BASS	1,542	1,806	3,348	-	27	27
WHITEFISH:						
COMMON	1,387	906	2,293	-	-	-
MENOMINEE	62	70	132	-	-	-
WHITE PERCH	3	271	274	-	-	-
YELLOW PERCH	8,291	9,323	17,614	-	21	21
YELLOW PIKE	682	1,275	1,957	-	356	356
UNCLASSIFIED, FOR ANIMAL FOOD	-	934	934	-	36	36
TOTAL	53,559	34,045	87,604	8	946	954

SPECIES	LAKE OF THE WOODS			NAMAKAN LAKE		
	UNITED STATES	CANADA	TOTAL	UNITED STATES	CANADA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
BUFFALOFISH	(1)	-	(1)	-	-	-
BULLHEADS	2	132	134	-	-	-
BURBOT	189	269	458	4	2	6
CARP	-	(1)	(1)	-	-	-
CATFISH	-	(1)	(1)	-	-	-
LAKE TROUT	-	4	4	-	-	-
MOONEYE OR GOLDEYE	(1)	-	(1)	-	-	-
PIKE OR PICKEREL	76	411	487	-	(1)	(1)
QUILLBACK	(1)	-	-	-	-	-
ROCK BASS	-	40	40	-	(1)	(1)
SAUGER	68	39	107	-	-	-
STURGEON	-	(1)	(1)	-	(1)	(1)
SUCKERS	231	418	649	8	8	16
SUNFISH	-	(1)	(1)	-	-	-
TULLIBEE	2,203	236	2,439	8	4	12
WHITE BASS	-	(1)	(1)	-	-	-
WHITEFISH, COMMON	(1)	96	96	11	3	14
YELLOW PERCH	12	7	19	-	-	-
YELLOW PIKE	217	564	781	-	7	7
UNCLASSIFIED, FOR ANIMAL FOOD	-	77	77	-	-	-
TOTAL	2,998	2,293	5,291	31	24	55

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF UNITED STATES AND CANADIAN CATCH, 1964 - Continued

(THOUSANDS OF POUNDS)

SPECIES	RAINY LAKE			TOTAL, INTERNATIONAL LAKES			GRAND TOTAL, ALL LAKES		
	UNITED STATES	CANADA	TOTAL	UNITED STATES	CANADA	TOTAL	UNITED STATES	CANADA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
ALEWIVES	-	-	-	-	-	-	11,745	-	11,745
BLUE PIKE.	-	-	-	-	-	-	(1)	(1)	(1)
BOWFIN	-	-	-	-	(1)	(1)	2	26	28
BUFFALOFISH. . . .	-	-	-	(1)	-	(1)	121	-	121
BULLHEADS.	-	-	-	2	143	145	212	324	536
BURBOT	20	102	122	213	373	586	238	384	622
CARP	-	-	-	8	211	219	5,280	710	5,990
CATFISH.	-	-	-	-	62	62	1,318	271	1,589
CHUBS.	-	-	-	-	-	-	7,217	1,605	8,822
CISCO.	-	-	-	-	-	-	9	-	9
CRAPPIE.	-	-	-	-	-	-	2	-	2
EELS, COMMON . . .	-	-	-	-	-	-	33	246	279
GARFISH.	-	-	-	-	-	-	(1)	-	(1)
GIZZARD SHAD . . .	-	-	-	-	-	-	11	-	11
GOLDFISH	-	-	-	-	-	-	159	-	159
LAKE HERRING . . .	-	-	-	-	-	-	6,261	1,986	8,247
LAKE TROUT	-	-	-	-	4	4	102	112	214
MOONEYE OR GOLDEYE	-	-	-	(1)	(1)	(1)	(1)	(1)	(1)
PIKE OR PICKEREL .	6	145	151	82	580	662	155	655	810
QUILLBACK.	-	-	-	(1)	-	(1)	9	-	9
ROCK BASS.	-	4	4	-	79	79	13	186	199
SAUGER	-	1	1	68	40	108	69	102	171
SCULPIN.	-	-	-	-	-	-	2	-	2
SHEEPSHEAD	-	-	-	-	7	7	4,571	826	5,397
SMELT.	-	-	-	-	-	-	3,468	12,883	16,351
STURGEON	-	2	2	-	11	11	5	37	42
SUCKERS.	22	167	189	261	683	944	1,212	1,084	2,296
SUNFISH.	-	(1)	(1)	-	57	57	12	273	285
TULLIBEE	12	86	98	2,223	326	2,549	2,223	326	2,549
WHITE BASS	-	-	-	-	27	27	1,542	1,833	3,375
WHITEFISH:									
COMMON	25	39	64	36	138	174	1,423	1,044	2,467
MENOMINEE. . . .	-	-	-	-	-	-	62	70	132
WHITE PERCH. . . .	-	-	-	-	-	-	3	271	274
YELLOW PERCH . . .	(1)	2	2	12	30	42	8,303	9,353	17,656
YELLOW PIKE. . . .	6	61	67	223	988	1,211	905	2,263	3,168
UNCLASSIFIED, FOR ANIMAL FOOD . . .	-	5	5	-	118	118	-	1,052	1,052
TOTAL	91	614	705	3,128	3,877	7,005	56,687	37,922	94,609

1/ LESS THAN 500 POUNDS.

2/ COMMERCIAL FISHING IS ILLEGAL IN THE U.S. WATERS OF LAKE ST. CLAIR. FISH FROM THIS LAKE WERE TAKEN UNDER THE MICHIGAN DEPARTMENT OF CONSERVATION'S ROUGH FISH REMOVAL PROGRAM.

NOTE:--IN CANADA THE CATCH OF CRAPPIES HAS BEEN INCLUDED WITH ROCK BASS.

SUMMARY OF U. S. CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

STATE	TOTAL	
	QUANTITY	VALUE
NEW YORK	446	90
PENNSYLVANIA	817	91
OHIO	11,230	1,008
MICHIGAN	19,769	2,522
INDIANA.	11	2
ILLINOIS	645	112
WISCONSIN.	18,570	1,505
MINNESOTA.	5,199	242
TOTAL	56,687	5,572

GREAT LAKES FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF U. S. OPERATING UNITS AND FISHING EFFORT, BY LAKES, 1964

ITEM	LAKE ONTARIO	LAKE ERIE	LAKE HURON	LAKE MICHIGAN	LAKE SUPERIOR	INTER-NATIONAL LAKES	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:							
ON VESSELS:							
REGULAR	3	12	15	108	30	-	177
PART-TIME	-	92	56	162	94	4	397
CASUAL	-	72	63	112	64	-	262
ON BOATS AND SHORE:							
REGULAR	-	4	7	9	15	-	35
PART-TIME	3	108	91	126	108	42	478
CASUAL	42	308	172	422	229	11	1,184
TOTAL FISHERMEN	48	596	404	939	540	57	2,533
VESSELS, MOTOR:							
REGULAR	1	4	5	36	10	-	59
PART-TIME	-	45	27	79	47	2	197
CASUAL	-	35	30	56	32	-	130
TOTAL VESSELS	1	84	62	171	89	2	1/ 386
TOTAL GROSS TONNAGE	10	1,077	1,050	3,780	1,464	49	7,099
BOATS:							
MOTOR:							
REGULAR	-	1	3	3	5	-	12
PART-TIME	1	47	42	61	54	20	225
CASUAL	24	206	118	305	191	8	852
TOTAL MOTOR BOATS	25	254	163	369	250	28	1,089
OTHER:							
REGULAR	-	1	-	-	-	-	1
PART-TIME	-	19	2	1	-	-	22
CASUAL	1	44	13	8	-	-	66
TOTAL OTHER BOATS	1	64	15	9	-	-	89
DAYS OPERATED:							
FISHERMEN:							
ON VESSELS	507	12,129	9,700	41,876	16,577	588	81,377
ON BOATS AND SHORE	908	16,251	12,065	18,915	17,114	4,746	69,999
TOTAL FISHERMEN DAYS	1,415	28,380	21,765	60,791	33,691	5,334	151,376
CRAFT:							
VESSELS	169	5,748	4,365	17,516	7,336	294	35,428
BOATS, MOTOR	468	7,887	6,357	11,112	9,551	2,495	37,870
TOTAL CRAFT DAYS	637	13,635	10,722	28,628	16,887	2,789	73,298
FISHING EFFORT:							
LIFTS:							
POUND NETS	-	-	393	2,965	2,029	34	5,421
TRAP NETS	1,333	26,538	11,130	1,963	1,552	1,334	43,850
FYKE AND HOOP NETS	573	531	396	13,733	3	152	15,388
LIFTS PER 1,000 LINEAR YARDS:							
HAUL SEINES	2	3,266	175	142	-	-	3,585
GILL NETS:							
1-1/4 - 2 INCH MESH	1	12	40	71	684	-	808
2-1/8 - 3-7/8 INCH MESH	297	7,974	15,622	47,400	16,887	-	88,180
4 - 7 INCH MESH	523	1,904	1,235	11,810	7,502	2,095	25,069
7-1/8 - 14 INCH MESH	1	31	1,027	185	-	-	1,244
LIFTS PER 1,000 HOOKS, LINES, LONG OR SET	-	1,342	1,483	15	-	-	2,840
HOURS TRAWLED	-	722	-	9,250	-	1,468	11,440
DAYS FISHED:							
LINES, HAND	-	-	-	15	-	-	15
DIP NETS	-	34	-	-	8	-	42

1/ EXCLUDES 4 VESSELS OPERATED IN LAKE WINNEBAGO.

NOTE:--THE NUMBER OF DAYS INDICATES THAT FISHING OCCURRED REGARDLESS OF THE AMOUNT OF TIME FISHED DURING A DAY. THE NUMBER OF FISHERMEN AND CRAFT OPERATING AS REGULAR, PART-TIME, AND CASUAL IS BASED ON DAYS OF OPERATION AS FOLLOWS: REGULAR--MORE THAN 161 DAYS, PART-TIME 54 TO 161 DAYS (INCLUSIVE), AND CASUAL--LESS THAN 54 DAYS.

SUMMARY OF U. S. OPERATING UNITS AND FISHING EFFORT, BY STATES, 1964

ITEM	NEW YORK	PENNSYLVANIA	OHIO	MICHIGAN	INDIANA	ILLINOIS	WISCONSIN	MINNESOTA	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:									
ON VESSELS:									
REGULAR.	6	-	6	77	-	3	72	-	177
PART-TIME.	6	20	62	220	-	7	96	10	397
CASUAL	6	6	63	161	-	3	87	-	262
ON BOATS AND SHORE:									
REGULAR.	-	-	4	10	-	3	6	12	35
PART-TIME.	3	2	102	189	-	-	74	108	478
CASUAL	46	4	271	594	3	2	205	59	1,184
TOTAL FISHERMEN . .	67	32	508	1,251	3	18	540	189	2,533
VESSELS, MOTOR:									
REGULAR.	2	-	2	26	-	1	24	-	59
PART-TIME.	3	9	30	108	-	3	46	5	197
CASUAL	3	3	30	79	-	1	43	-	130
TOTAL VESSELS . . .	8	12	62	213	-	5	113	5	1/ 386
TOTAL GROSS TONNAGE	103	157	816	3,956	-	137	2,442	93	7,099
BOATS:									
MOTOR:									
REGULAR.	-	-	1	4	-	1	2	4	12
PART-TIME.	1	1	44	91	-	-	35	53	225
CASUAL	28	4	185	449	3	2	128	53	852
TOTAL MOTOR BOATS .	29	5	230	544	3	3	165	110	1,089
OTHER:									
REGULAR.	-	-	1	-	-	-	-	-	1
PART-TIME.	-	-	17	4	-	-	1	-	22
CASUAL	1	-	38	20	-	-	7	-	66
TOTAL OTHER BOATS .	1	-	56	24	-	-	8	-	89
DAYS OPERATED:									
FISHERMEN:									
ON VESSELS	2,106	2,096	7,464	39,698	-	1,223	27,770	1,020	81,377
ON BOATS AND SHORE .	941	327	14,919	27,517	39	520	11,561	14,175	69,999
TOTAL FISHERMEN DAYS	3,047	2,423	22,383	67,215	39	1,743	39,331	15,195	151,376
CRAFT:									
VESSELS.	786	1,048	3,598	17,682	-	503	11,301	510	35,428
BOATS, MOTOR	501	208	7,294	15,695	39	186	6,705	7,242	37,870
TOTAL CRAFT DAYS. .	1,287	1,256	10,892	33,377	39	689	18,006	7,752	73,298
FISHING EFFORT:									
LIFTS:									
POUND NETS	-	-	-	3,509	-	-	1,561	351	5,421
TRAP NETS.	1,333	-	23,556	17,627	-	-	-	1,334	43,850
FYKE AND HOOP NETS .	573	-	349	797	-	-	13,517	152	15,388
LIFTS PER 1,000 LINEAR YARDS:									
HAUL SEINES.	2	-	3,117	326	-	-	140	-	3,585
GILL NETS:									
1-1/4 - 2 INCH MESH.	1	-	12	707	-	-	88	-	808
2-1/8 - 3-7/8 INCH MESH.	1,712	4,190	2,366	46,672	12	2,608	27,801	2,819	88,180
4 - 7 INCH MESH. .	1,126	223	1,078	15,024	-	-	5,523	2,095	25,069
7-1/8 - 14 INCH MESH.	1	-	31	1,087	-	-	125	-	1,244
LIFTS PER 1,000 HOOKS, LINES, LONG OR SET. .	-	-	1,342	1,498	-	-	-	-	2,840
HOURS TRAWLED.	-	722	-	1,710	-	-	7,540	1.468	11,440
DAYS FISHED:									
LINES, HAND.	-	-	-	15	-	-	-	-	15
DIP NETS	-	-	34	-	-	-	8	-	42

1/ EXCLUDES 4 VESSELS OPERATED IN LAKE WINNEBAGO.

SEE NOTE ON PAGE 329.

SUMMARY OF U. S. OPERATING UNITS AND FISHING EFFORT, BY STATES AND LAKES, 1964

ITEM	NEW YORK		PENN-SYLVANIA	OHIO	MICHIGAN			
	LAKE ONTARIO	LAKE ERIE	LAKE ERIE	LAKE ERIE	LAKE ERIE	LAKE HURON	LAKE MICHIGAN	LAKE SUPERIOR
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:								
ON VESSELS:								
REGULAR.	3	3	-	6	-	15	24	30
PART-TIME.	-	6	20	62	10	56	97	68
CASUAL	-	6	6	63	8	63	84	34
ON BOATS AND SHORE:								
REGULAR.	-	-	-	4	-	7	-	3
PART-TIME.	3	-	2	102	4	91	54	40
CASUAL	42	4	4	271	29	172	250	143
TOTAL FISHERMEN	48	19	32	508	51	404	509	318
VESSELS, MOTOR:								
REGULAR.	1	1	-	2	-	5	8	10
PART-T]ME.	-	3	9	30	5	27	46	34
CASUAL	-	3	3	30	4	30	41	17
TOTAL VESSELS	1	7	12	62	9	62	95	61
TOTAL GROSS TONNAGE	10	93	157	816	92	1,050	2,024	999
BOATS:								
MOTOR:								
REGULAR.	-	-	-	1	-	3	-	1
PART-TIME.	1	-	1	44	2	42	27	20
CASUAL	24	4	4	185	13	118	191	127
TOTAL MOTOR BOATS	25	4	5	230	15	163	218	148
OTHER:								
REGULAR.	-	-	-	1	-	-	-	-
PART-TIME.	-	-	-	17	2	2	-	-
CASUAL	1	-	-	38	6	13	1	-
TOTAL OTHER BOATS	1	-	-	56	8	15	1	-
DAYS OPERATED:								
FISHERMEN:								
ON VESSELS	507	1,599	2,096	7,464	970	9,700	15,847	13,181
ON BOATS AND SHORE	908	33	327	14,919	972	12,065	7,662	6,818
TOTAL FISHERMEN DAYS.	1,415	1,632	2,423	22,383	1,942	21,765	23,509	19,999
CRAFT:								
VESSELS.	169	617	1,048	3,598	485	4,365	7,194	5,638
BOATS, MOTOR	468	33	208	7,294	352	6,357	4,767	4,219
TOTAL CRAFT DAYS.	637	650	1,256	10,892	837	10,722	11,961	9,857
FISHING EFFORT:								
LIFTS:								
POUND NETS	-	-	-	-	-	393	2,004	1,112
TRAP NETS.	1,333	-	-	23,556	2,982	11,130	1,963	1,552
FYKE AND HOOP NETS	573	-	-	349	182	396	216	3
LIFTS PER 1,000 LINEAR YARDS:								
HAUL SEINES.	2	-	-	3,117	149	175	2	-
GILL NETS:								
1-1/4 - 2 INCH MESH.	1	-	-	12	-	40	25	642
2-1/8 - 3-7/8 INCH MESH. . .	297	1,415	4,190	2,366	3	15,622	18,913	12,134
4 - 7 INCH MESH.	523	603	223	1,078	-	1,235	7,954	5,835
7-1/8 - 14 INCH MESH	1	-	-	31	-	1,027	60	-
LIFTS PER 1,000 HOOKS, LINES, LONG OR SET.	-	-	-	1,342	1	1,482	15	-
HOURS TRAWLED.	-	-	722	-	-	-	1,710	-
DAYS FISHED:								
LINES, HAND.	-	-	-	-	-	-	15	-
DIP NETS	-	-	-	34	-	-	-	-

(CONTINUED ON NEXT PAGE)

SUMMARY OF U. S. OPERATING UNITS AND FISHING EFFORT, BY STATES AND LAKES, 1964 - Continued

ITEM	INDIANA	ILLINOIS	WISCONSIN		MINNESOTA	
	LAKE MICHIGAN	LAKE MICHIGAN	LAKE MICHIGAN	LAKE SUPERIOR	LAKE SUPERIOR	INTER-NATIONAL LAKES
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS:						
REGULAR	-	3	72	-	-	-
PART-TIME	-	7	76	20	6	4
CASUAL.	-	3	55	32	-	-
ON BOATS AND SHORE:						
REGULAR	-	3	6	-	12	-
PART-TIME	-	-	72	2	66	42
CASUAL.	3	2	167	38	48	11
TOTAL FISHERMEN.	3	18	448	92	132	57
VESSELS, MOTOR:						
REGULAR	-	1	24	-	-	-
PART-TIME	-	3	36	10	3	2
CASUAL.	-	1	27	16	-	-
TOTAL VESSELS.	-	5	87	26	3	2
TOTAL GROSS TONNAGE.	-	137	2,005	437	44	49
BOATS:						
MOTOR:						
REGULAR	-	1	2	-	4	-
PART-TIME	-	-	34	1	33	20
CASUAL.	3	2	109	19	45	8
TOTAL MOTOR BOATS.	3	3	145	20	82	28
OTHER:						
PART-TIME	-	-	1	-	-	-
CASUAL.	-	-	7	-	-	-
TOTAL OTHER BOATS.	-	-	8	-	-	-
DAYS OPERATED:						
FISHERMEN:						
ON VESSELS.	-	1,223	24,806	2,964	432	588
ON BOATS AND SHORE.	39	520	10,694	867	9,429	4,746
TOTAL FISHERMEN DAYS	39	1,743	35,500	3,831	9,861	5,334
CRAFT:						
VESSELS	-	503	9,819	1,482	216	294
BOATS, MOTOR.	39	186	6,120	585	4,747	2,495
TOTAL CRAFT DAYS	39	689	15,939	2,067	4,963	2,789
FISHING EFFORT:						
LIFTS:						
POUND NETS.	-	-	961	600	317	34
TRAP NETS	-	-	-	-	-	1,334
FYKE AND HOOP NETS.	-	-	13,517	-	-	152
LIFTS PER 1,000 LINEAR YARDS:						
HAUL SEINES	-	-	140	-	-	-
GILL NETS:						
1-1/4 - 2 INCH MESH	-	-	46	42	-	-
2-1/8 - 3-7/8 INCH MESH . .	12	2,608	25,867	1,934	2,819	-
4 - 7 INCH MESH	-	-	3,856	1,667	-	2,095
7-1/8 - 14 INCH MESH. . . .	-	-	125	-	-	-
HOURS TRAWLED	-	-	7,540	-	-	1,468
DAYS FISHED, DIP NETS	-	-	-	8	-	-

SEE NOTE ON PAGE 329.

CATCH BY STATES, 1964

SPECIES	NEW YORK		PENNSYLVANIA		OHIO	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES.	(1)	(1)	-	-	-	-
BLUE PIKE	(1)	$2	(1)	$5	100	$27
BOWFIN.	1,600	94	-	-	-	-
BUFFALOFISH	-	-	-	-	95,200	12,086
BULLHEADS	44,500	12,008	-	-	122,200	12,222
BURBOT.	400	19	200	3	3,200	158
CARP.	39,100	1,174	(1)	(1)	2,273,700	61,388
CATFISH	1,300	217	1,000	210	1,114,600	303,182
CISCO	8,100	2,338	200	58	500	154
CRAPPIE	700	74	-	-	-	-
EELS, COMMON.	32,700	6,550	-	-	-	-
GARFISH	(1)	(1)	-	-	-	-
GIZZARD SHAD.	-	-	-	-	9,600	362
GOLDFISH.	-	-	-	-	158,700	4,286
MOONEYE OR GOLDEYE. . .	-	-	-	-	200	6
PIKE OR PICKEREL. . . .	100	6	-	-	-	-
QUILLBACK	-	-	(1)	1	100	4
ROCK BASS	3,600	288	-	-	-	-
SAUGER.	-	-	-	-	(1)	5
SHEEPSHEAD.	1,000	39	25,700	513	4,422,900	75,190
SMELT	800	69	445,000	22,626	1,300	52
STURGEON.	100	76	100	72	800	667
SUCKERS	13,800	1,080	1,500	43	183,400	8,805
SUNFISH	11,700	1,291	-	-	-	-
WHITE BASS.	12,900	1,782	10,800	1,425	1,415,100	236,313
WHITEFISH, COMMON . . .	16,500	9,082	2,000	939	800	485
WHITE PERCH	3,500	418	-	-	-	-
YELLOW PERCH.	167,400	23,478	312,700	60,032	1,086,100	158,570
YELLOW PIKE	86,400	29,540	17,400	5,479	341,900	134,241
TOTAL.	446,200	89,625	816,600	91,406	11,230,400	1,008,203

SPECIES	MICHIGAN		INDIANA		ILLINOIS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES.	3,331,200	$50,639	(1)	$1	3,400	$51
BOWFIN.	200	11	-	-	-	-
BUFFALOFISH	25,600	2,867	-	-	-	-
BULLHEADS	12,300	1,651	-	-	-	-
BURBOT.	500	13	-	-	-	-
CARP.	1,661,300	61,282	-	-	-	-
CATFISH	200,800	54,717	-	-	-	-
CHUBS	3,010,100	512,869	-	-	21,800	4,741
CRAPPIE	900	216	-	-	-	-
GIZZARD SHAD.	1,900	43	-	-	-	-
LAKE HERRING.	4,723,600	278,464	-	-	1,400	162
LAKE TROUT.	63,900	42,508	-	-	-	-
PIKE OR PICKEREL. . . .	45,400	14,880	-	-	-	-
QUILLBACK	9,000	319	-	-	-	-
ROCK BASS	9,200	1,601	-	-	-	-
SAUGER.	500	74	-	-	-	-
SHEEPSHEAD.	121,300	3,623	-	-	-	-
SMELT	1,290,100	66,531	-	-	-	-
STURGEON.	3,700	3,295	-	-	-	-
SUCKERS	548,900	24,396	(1)	1	-	-
WHITE BASS.	103,300	14,584	-	-	-	-
WHITEFISH:						
COMMON.	1,097,800	673,995	-	-	-	-
MENOMINEE	21,600	4,829	-	-	-	-
YELLOW PERCH.	3,255,900	616,526	11,300	1,949	618,000	106,910
YELLOW PIKE	230,300	92,110	-	-	-	-
TOTAL.	19,769,300	2,522,043	11,300	1,951	644,600	111,864

SPECIES	WISCONSIN		MINNESOTA		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES.	8,410,200	$168,203	-	-	11,744,800	$218,894
BLUE PIKE	-	-	-	-	100	34
BOWFIN.	(1)	(1)	-	-	1,800	105
BUFFALOFISH	-	-	(1)	(1)	120,800	14,953
BULLHEADS	31,600	2,532	1,700	$76	212,300	28,489
BURBOT.	21,000	1,054	213,100	12,036	238,400	13,283
CARP.	1,305,900	26,118	-	-	5,280,000	149,962
CATFISH	100	28	-	-	1,317,800	358,354

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY STATES, 1964 - Continued

SPECIES	WISCONSIN		MINNESOTA		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CHUBS	4,135,700	$634,770	50,100	$5,000	7,217,700	$1,157,380
CISCO	-	-	-	-	8,800	2,550
CRAPPIE	-	-	-	-	1,600	290
EELS, COMMON	-	-	-	-	32,700	6,550
GARFISH	-	-	-	-	(1)	(1)
GIZZARD SHAD	-	-	-	-	11,500	405
GOLDFISH	-	-	-	-	158,700	4,286
LAKE HERRING	553,200	23,329	982,600	68,700	6,260,800	370,655
LAKE TROUT	37,900	24,645	-	-	101,800	67,153
MOONEYE OR GOLDEYE	-	-	100	2	300	8
PIKE OR PICKEREL	27,600	3,310	82,000	3,296	155,100	21,492
QUILLBACK	-	-	(1)	(1)	9,100	324
ROCK BASS	-	-	-	-	12,800	1,889
SAUGER	-	-	68,500	5,800	69,000	5,879
SCULPIN	2,400	49	-	-	2,400	49
SHEEPSHEAD	-	-	-	-	4,570,900	79,365
SMELT	686,000	27,437	1,044,700	20,900	3,467,900	137,615
STURGEON	-	-	-	-	4,700	4,110
SUCKERS	203,000	8,119	261,600	5,538	1,212,200	47,982
SUNFISH	-	-	-	-	11,700	1,291
TULLIBEE	-	-	2,223,200	66,690	2,223,200	66,690
WHITE BASS	-	-	-	-	1,542,100	254,104
WHITEFISH:						
COMMON	270,000	148,512	36,200	8,405	1,423,300	841,418
MENOMINEE	39,500	8,301	1,100	150	62,200	13,280
WHITE PERCH	-	-	-	-	3,500	418
YELLOW PERCH	2,839,600	425,940	11,600	904	8,302,600	1,394,309
YELLOW PIKE	6,100	2,454	222,500	44,921	904,600	308,745
TOTAL	18,569,800	1,504,801	5,199,000	242,418	56,687,200	5,572,311

1/ LESS THAN 50 POUNDS OR 50 CENTS.

CATCH BY LAKES AND STATES, 1964

SPECIES	LAKE ONTARIO		LAKE ERIE			
	NEW YORK		NEW YORK		PENNSYLVANIA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	(1)	(1)	-	-	-	-
BLUE PIKE	-	-	(1)	$2	(1)	$5
BOWFIN	1,600	$94	-	-	-	-
BULLHEADS	44,500	12,008	-	-	-	-
BURBOT	400	19	-	-	200	3
CARP	39,100	1,174	(1)	(1)	(1)	(1)
CATFISH	800	112	500	105	1,000	210
CISCO	8,100	2,335	(1)	3	200	58
CRAPPIE	700	74	-	-	-	-
EELS, COMMON	32,700	6,550	-	-	-	-
GARFISH	(1)	(1)	-	-	-	-
PIKE OR PICKEREL	100	6	-	-	-	-
QUILLBACK	-	-	-	-	(1)	1
ROCK BASS	3,600	288	-	-	-	-
SHEEPSHEAD	(1)	1	1,000	38	25,700	513
SMELT	500	53	300	16	445,000	22,626
STURGEON	100	76	-	-	100	72
SUCKERS	13,400	1,072	400	8	1,500	43
SUNFISH	11,700	1,291	-	-	-	-
WHITE BASS	3,600	474	9,300	1,308	10,800	1,425
WHITEFISH, COMMON	16,500	9,079	(1)	3	2,000	939
WHITE PERCH	3,500	418	-	-	-	-
YELLOW PERCH	83,200	7,490	84,200	15,988	312,700	60,032
YELLOW PIKE	2,500	1,016	83,900	28,524	17,400	5,479
TOTAL	266,600	43,630	179,600	45,995	816,600	91,406

SPECIES	LAKE ERIE - CONTINUED					
	OHIO		MICHIGAN		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUE PIKE	100	$27	-	-	100	$34
BUFFALOFISH	95,200	12,086	25,600	$2,866	120,800	14,952
BULLHEADS	122,200	12,222	4,600	677	126,800	12,899
BURBOT	3,200	158	-	-	3,400	161
CARP	2,273,700	61,388	635,700	17,164	2,909,400	78,552
CATFISH	1,114,600	303,182	47,700	12,737	1,163,800	316,234

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY LAKES AND STATES, 1964 - Continued

SPECIES	LAKE ERIE - CONTINUED					
	OHIO		MICHIGAN		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CISCO	500	$154	-	-	700	$215
GIZZARD SHAD	9,600	362	1,900	$43	11,500	405
GOLDFISH	158,700	4,286	-	-	158,700	4,286
MOONEYE OR GOLDEYE	200	6	-	-	200	6
QUILLBACK	100	4	-	-	100	5
ROCK BASS	-	-	(1)	1	(1)	1
SAUGER	(1)	5	-	-	(1)	5
SHEEPSHEAD	4,422,900	75,190	99,700	2,875	4,549,300	78,616
SMELT	1,300	52	-	-	446,600	22,694
STURGEON	800	667	-	-	900	739
SUCKERS	183,400	8,805	54,400	1,371	239,700	10,227
WHITE BASS	1,415,100	236,313	99,900	13,964	1,535,100	253,010
WHITEFISH, COMMON	800	485	-	-	2,800	1,427
YELLOW PERCH	1,086,100	158,570	36,700	6,490	1,519,700	241,080
YELLOW PIKE	341,900	134,241	121,500	47,985	564,700	216,229
TOTAL	11,230,400	1,008,203	1,127,700	106,173	13,354,300	1,251,777

SPECIES	LAKE HURON		LAKE MICHIGAN			
	MICHIGAN		MICHIGAN		INDIANA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	1,200	$21	3,329,700	$50,611	(1)	$1
BOWFIN	200	11	-	-	-	-
BUFFALOFISH	(1)	1	-	-	-	-
BULLHEADS	7,700	973	(1)	1	-	-
BURBOT	-	-	(1)	3	-	-
CARP	1,003,000	43,310	14,300	475	-	-
CATFISH	153,100	41,976	(1)	4	-	-
CHUBS	1,256,200	242,865	1,357,300	224,333	-	-
CRAPPIE	900	216	-	-	-	-
GIZZARD SHAD	-	-	(1)	(1)	-	-
LAKE HERRING	39,800	5,928	19,700	2,314	-	-
LAKE TROUT	-	-	100	42	-	-
PIKE OR PICKEREL	35,900	12,739	9,400	2,127	-	-
QUILLBACK	9,000	319	-	-	-	-
ROCK BASS	9,200	1,598	(1)	2	-	-
SAUGER	100	20	400	39	-	-
SHEEPSHEAD	21,600	747	(1)	1	-	-
SMELT	32,000	16,222	802,000	23,249	-	-
STURGEON	400	429	3,200	2,806	-	-
SUCKERS	437,500	20,870	38,000	1,513	(1)	1
WHITE BASS	3,400	620	-	-	-	-
WHITEFISH:						
COMMON	165,300	89,137	584,100	414,576	-	-
MENOMINEE	2,500	560	9,100	2,086	-	-
YELLOW PERCH	836,200	167,656	2,366,200	439,397	11,300	1,949
YELLOW PIKE	79,300	32,134	29,200	11,894	-	-
TOTAL	4,094,500	678,352	8,562,700	1,175,473	11,300	1,951

SPECIES	LAKE MICHIGAN - CONTINUED					
	ILLINOIS		WISCONSIN		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	3,400	$51	8,410,200	$168,202	11,743,300	$218,865
BOWFIN	-	-	(1)	(1)	(1)	(1)
BULLHEADS	-	-	31,600	2,531	31,600	2,532
BURBOT	-	-	14,500	727	14,500	730
CARP	-	-	1,305,200	26,104	1,319,500	26,579
CATFISH	-	-	100	28	100	32
CHUBS	21,800	4,741	3,793,000	560,349	5,172,100	789,423
GIZZARD SHAD	-	-	-	-	(1)	(1)
LAKE HERRING	1,400	162	13,400	1,736	34,500	4,212
LAKE TROUT	-	-	100	76	200	118
PIKE OR PICKEREL	-	-	27,600	3,309	37,000	5,436
ROCK BASS	-	-	-	-	(1)	2
SAUGER	-	-	-	-	400	39
SCULPIN	-	-	2,400	49	2,400	49
SHEEPSHEAD	-	-	-	-	(1)	1
SMELT	-	-	166,600	6,662	968,600	29,911
STURGEON	-	-	-	-	3,200	2,806
SUCKERS	-	-	176,900	7,076	214,900	8,590
WHITEFISH:						
COMMON	-	-	192,900	106,112	777,000	520,688
MENOMINEE	-	-	2,400	509	11,500	2,595
YELLOW PERCH	618,000	106,910	2,839,500	425,924	5,835,000	974,180
YELLOW PIKE	-	-	6,100	2,452	35,300	14,346
TOTAL	644,600	111,864	16,982,500	1,311,846	26,201,100	2,601,134

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY LAKES AND STATES, 1964 - Continued

SPECIES	LAKE SUPERIOR							
	MICHIGAN		WISCONSIN		MINNESOTA		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	300	$7	(1)	$1	-	-	300	$8
BULLHEADS	-	-	(1)	1	-	-	(1)	1
BURBOT	500	10	6,500	327	(1)	(1)	7,000	337
CARP	(1)	2	700	14	-	-	700	16
CHUBS	396,600	45,671	342,700	74,421	50,100	$5,000	789,400	125,092
LAKE HERRING	4,664,100	270,222	539,800	21,593	982,600	68,700	6,186,500	360,515
LAKE TROUT	63,800	42,466	37,800	24,569	-	-	101,600	67,035
PIKE OR PICKEREL	100	14	(1)	1	-	-	100	15
SAUGER	(1)	15	-	-	-	-	(1)	15
SMELT	456,100	27,060	519,400	20,775	1,044,700	20,900	2,020,200	68,735
STURGEON	100	60	-	-	-	-	100	60
SUCKERS	19,000	642	26,100	1,043	200	8	45,300	1,693
WHITEFISH:								
COMMON	348,400	170,282	77,100	42,400	(1)	1	425,500	212,683
MENOMINEE	10,000	2,183	37,100	7,792	1,100	150	48,200	10,125
YELLOW PERCH	16,800	2,983	100	16	-	-	16,900	2,999
YELLOW PIKE	300	97	(1)	2	-	-	300	99
TOTAL	5,976,100	561,714	1,587,300	192,955	2,078,700	94,759	9,642,100	849,428

SPECIES	LAKE ST. CLAIR		LAKE OF THE WOODS		NAMAKAN LAKE	
	MICHIGAN		MINNESOTA		MINNESOTA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	-	-	(1)	(1)	-	-
BULLHEADS	-	-	1,700	$76	-	-
BURBOT	-	-	188,600	11,300	4,100	$124
CARP	8,300	$331	-	-	-	-
MOONEYE OR GOLDEYE	-	-	100	2	-	-
PIKE OR PICKEREL	-	-	76,100	3,000	-	-
QUILLBACK	-	-	(1)	(1)	-	-
SAUGER	-	-	68,500	5,800	-	-
SUCKERS	-	-	231,300	4,620	8,000	241
TULLIBEE	-	-	2,203,500	66,100	7,500	224
WHITEFISH, COMMON	-	-	100	20	11,000	2,609
YELLOW PERCH	-	-	11,600	900	-	-
YELLOW PIKE	-	-	217,000	43,400	-	-
TOTAL	8,300	331	2,998,500	135,218	30,600	3,198

SPECIES	RAINY LAKE		TOTAL, ALL LAKES	
	MINNESOTA			
	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	11,744,800	$218,894
BLUE PIKE	-	-	100	34
BOWFIN	-	-	1,800	105
BUFFALOFISH	-	-	120,800	14,953
BULLHEADS	-	-	212,300	28,489
BURBOT	20,400	$612	238,400	13,283
CARP	-	-	5,280,000	149,962
CATFISH	-	-	1,317,800	358,354
CHUBS	-	-	7,217,700	1,157,380
CISCO	-	-	8,800	2,550
CRAPPIE	-	-	1,600	290
EELS, COMMON	-	-	32,700	6,550
GARFISH	-	-	(1)	(1)
GIZZARD SHAD	-	-	11,500	405
GOLDFISH	-	-	158,700	4,286
LAKE HERRING	-	-	6,260,800	370,655
LAKE TROUT	-	-	101,800	67,153
MOONEYE OR GOLDEYE	-	-	300	8
PIKE OR PICKEREL	5,900	296	155,100	21,492
QUILLBACK	-	-	9,100	324
ROCK BASS	-	-	12,800	1,889
SAUGER	-	-	69,000	5,879
SCULPIN	-	-	2,400	49
SHEEPSHEAD	-	-	4,570,900	79,365
SMELT	-	-	3,467,900	137,615
STURGEON	-	-	4,700	4,110
SUCKERS	22,100	669	1,212,200	47,982
SUNFISH	-	-	11,700	1,291
TULLIBEE	12,200	366	2,223,200	66,690
WHITE BASS	-	-	1,542,100	254,104
WHITEFISH:				
COMMON	25,100	5,775	1,423,300	841,418
MENOMINEE	-	-	62,200	13,280
WHITE PERCH	-	-	3,500	418
YELLOW PERCH	(1)	4	8,302,600	1,394,309
YELLOW PIKE	5,500	1,521	904,600	308,745
TOTAL	91,200	9,243	56,687,200	5,572,311

1/ LESS THAN 50 POUNDS OR 50 CENTS.

MANUFACTURED FISHERY PRODUCTS, 1964

ITEM		NEW YORK		PENNSYLVANIA		OHIO	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CARP, SMOKED	POUNDS	-	-	-	-	(1)	(1)
CHUBS, SMOKED	DO	-	-	-	-	(1)	(1)
CISCO, SMOKED	DO	-	-	-	-	(1)	(1)
COD FILLETS, BREADED, RAW AND COOKED.	DO	-	-	-	-	(1)	(1)
HADDOCK FILLETS, BREADED AND COOKED, FRESH AND FROZEN	DO	247,000	$135,880	-	-	-	-
HERRING, SEA, SALTED AND PICKLED	DO	(1)	(1)	-	-	(1)	(1)
LAKE TROUT FILLETS, FRESH AND FROZEN.	DO	(1)	(1)	-	-	(1)	(1)
OCEAN PERCH FILLETS, BREADED, RAW AND COOKED	DO	(1)	(1)	-	-	(1)	(1)
POLLOCK FILLETS, BREADED AND COOKED, FROZEN	DO	(1)	(1)	-	-	-	-
SABLEFISH, SMOKED	DO	-	-	-	-	(1)	(1)
SALMON, SMOKED	DO	-	-	-	-	(1)	(1)
SAUGER FILLETS, FRESH AND FROZEN	DO	(1)	(1)	-	-	264,400	$229,900
SNAPPER, RED, FILLETS, FRESH AND FROZEN	DO	-	-	-	-	(1)	(1)
WHITE BASS FILLETS, FRESH AND FROZEN.	DO	(1)	(1)	(1)	(1)	(1)	(1)
WHITEFISH:							
FILLETS, FRESH AND FROZEN	DO	(1)	(1)	(1)	(1)	81,500	66,499
SMOKED	DO	(1)	(1)	-	-	(1)	(1)
YELLOW PERCH FILLETS:							
FRESH AND FROZEN	DO	182,835	74,275	60,334	$43,559	768,908	515,359
BREADED, FROZEN	DO	-	-	-	-	(1)	(1)
YELLOW PIKE FILLETS, FRESH AND FROZEN	DO	284,154	194,292	(1)	(1)	305,600	271,370
SHRIMP:							
FRESH AND FROZEN:							
PEELED AND DEVEINED, COOKED	DO	-	-	-	-	(1)	(1)
BREADED	DO	(1)	(1)	-	-	-	-
SMOKED	DO	(1)	(1)	-	-	-	-
SCALLOPS, BREADED, RAW AND COOKED, FROZEN	DO	(1)	(1)	-	-	-	-
OYSTERS, BREADED, FROZEN	DO	-	-	-	-	(1)	(1)
UNCLASSIFIED:							
FROZEN PACKAGED, FILLETS, STICKS AND PORTIONS	DO	306,900	200,190	-	-	33,148,395	9,838,346
CANNED	STANDARD CASES	-	-	-	-	-	(2)
CURED	POUNDS	53,087	31,092	-	-	-	(2)
MISCELLANEOUS	-	-	-	-	4,288	-	239,562
TOTAL	-	-	635,729	-	47,847	-	11,161,036

ITEM		MICHIGAN		ILLINOIS	
		QUANTITY	VALUE	QUANTITY	VALUE
ANCHOVY PASTE, CANNED	STANDARD CASES	(1)	(1)	-	-
BUTTERFISH, SMOKED	POUNDS.	-	-	(1)	(1)
CARP:					
FILLETS, FRESH AND FROZEN	DO	-	-	(1)	(1)
SMOKED	DO	(1)	(1)	-	-
CHUBS, SMOKED	DO	95,250	$45,096	497,308	$230,039
EELS, SMOKED	DO	-	-	(1)	(1)
HERRING:					
LAKE:					
FILLETS, FRESH AND FROZEN	DO	30,750	7,758	-	-
SALTED	DO	(1)	(1)	-	-
SMOKED	DO	5,865	2,118	(1)	(1)
SEA, SALTED AND PICKLED	DO	(1)	(1)	6,733,997	3,128,432
LAKE TROUT:					
FILLETS, FRESH AND FROZEN	DO	17,820	15,429	(1)	(1)
SMOKED	DO	5,000	4,134	(1)	(1)
MACKEREL, ATLANTIC, SALTED	DO	-	-	(1)	(1)
OCEAN PERCH FILLETS, BREADED, RAW AND COOKED	DO	-	-	(1)	(1)
PIKE OR PICKEREL FILLETS, FRESH AND FROZEN	DO	(1)	(1)	-	-
SABLEFISH, SMOKED	DO	(1)	(1)	191,096	103,636
SALMON, SMOKED	DO	(1)	(1)	560,239	961,989
SAUGER FILLETS, FRESH AND FROZEN	DO	356,000	222,920	(1)	(1)
SMELT, BREADED, FROZEN	DO	(1)	(1)	-	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		MICHIGAN		ILLINOIS	
		QUANTITY	VALUE	QUANTITY	VALUE
SNAPPER, RED, FILLETS, FRESH AND FROZEN	POUNDS	-	-	(1)	(1)
STURGEON, SMOKED	DO	(1)	(1)	(1)	(1)
WHITE BASS FILLETS, FRESH AND FROZEN	DO	(1)	(1)	-	-
WHITEFISH:					
FILLETS, FRESH AND FROZEN	DO	43,425	$36,746	141,000	$86,810
SMOKED	DO	25,235	14,478	7,658	6,069
YELLOW PERCH FILLETS:					
FRESH AND FROZEN	DO	882,900	564,925	12,900	5,390
BREADED FROZEN	DO	(1)	(1)	(1)	(1)
YELLOW PIKE FILLETS:					
FRESH AND FROZEN	DO	613,000	438,650	134,900	99,190
BREADED FROZEN	DO	-	-	(1)	(1)
SHRIMP, FRESH AND FROZEN, BREADED	DO	-	-	(1)	(1)
SCALLOPS, BREADED, RAW AND COOKED, FROZEN	DO	-	-	(1)	(1)
OYSTERS, BREADED, FROZEN	DO	-	-	(1)	(1)
UNCLASSIFIED:					
FROZEN PACKAGED, FILLETS, STICKS, AND PORTIONS	DO	-	(2)	438,593	246,329
CANNED	STANDARD CASES	-	(2)	-	(2)
CURED	POUNDS	1,138,000	414,194	-	(2)
MISCELLANEOUS	-	-	256,370	-	337,521
TOTAL	-	-	2,022,818	-	5,205,405

ITEM		WISCONSIN		MINNESOTA	
		QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES:					
MEAL	TONS	(1)	(1)	-	-
OIL	1,000 POUNDS	(1)	(1)	-	-
SOLUBLES	TONS	(1)	(1)	-	-
CHUBS, SMOKED	POUNDS	820,420	$313,384	15,542	$7,246
HERRING:					
LAKE:					
FILLETS, FRESH AND FROZEN	DO	(1)	(1)	(1)	(1)
BREADED, FRESH	DO	-	-	(1)	(1)
SALTED	DO	(1)	(1)	(1)	(1)
SMOKED	DO	34,660	10,131	7,558	2,435
SEA, SALTED AND PICKLED	DO	(1)	(1)	-	-
LAKE TROUT:					
FILLETS, FRESH AND FROZEN	DO	21,715	15,433	-	-
SMOKED	DO	11,076	8,307	(1)	(1)
PIKE OR PICKEREL FILLETS:					
FRESH AND FROZEN	DO	(1)	(1)	-	-
BREADED, FROZEN	DO	-	-	(1)	(1)
SABLEFISH, SMOKED	DO	37,315	22,533	(1)	(1)
SALMON, SMOKED	DO	24,870	19,271	(1)	(1)
SAUGER FILLETS, FRESH AND FROZEN	DO	19,000	14,740	-	-
SUCKERS, SMOKED	DO	-	-	(1)	(1)
WHITEFISH:					
FILLETS, FRESH AND FROZEN	DO	94,960	81,096	-	-
CAVIAR, CANNED	STANDARD CASES	(1)	(1)	-	-
SMOKED	POUNDS	32,630	19,294	(1)	(1)
WHITING, SMOKED	DO	-	-	(1)	(1)
YELLOW PERCH FILLETS:					
FRESH AND FROZEN	DO	1,158,973	713,920	-	-
BREADED, FROZEN	DO	(1)	(1)	-	-
YELLOW PIKE FILLETS:					
FRESH AND FROZEN	DO	38,170	34,072	-	-
BREADED FROZEN	DO	-	-	(1)	(1)
UNCLASSIFIED:					
FROZEN PACKAGED, FILLETS, STICKS AND PORTIONS	DO	662,378	281,581	47,000	26,000
CANNED	STANDARD CASES	-	(2)	-	-
CURED	POUNDS	997,130	513,455	211,394	38,103
INDUSTRIAL	-	-	(2)	-	-
MISCELLANEOUS	-	-	896,808	-	-
TOTAL	-	-	2,944,025	-	73,784

1/ INCLUDED WITH UNCLASSIFIED ITEMS.
2/ INCLUDED WITH MISCELLANEOUS.
NOTE:--SOME OF THE PRODUCTS MAY HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE CATCH WITHIN THE STATE. CERTAIN ITEMS ARE SHOWN IN AN INTERMEDIATE OR MORE ADVANCED STAGE OF PROCESSING.

SUMMARY OF MANUFACTURED PRODUCTS, 1964

(VALUE IN THOUSANDS OF DOLLARS)

ITEM		QUANTITY	VALUE
FRESH AND FROZEN PACKAGED:			
NOT BREADED, FISH AND SHELLFISH FILLETS, STEAKS, AND PORTIONS	1,000 POUNDS	6,609	4,366
BREADED	DO	34,139	10,318
CANNED AND INDUSTRIAL	1,000 STANDARD CASES	-	1,215
CURED	1,000 POUNDS	11,975	6,192
TOTAL	-	-	22,091

VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1964

(THOUSANDS OF DOLLARS)

STATE	VALUE
NEW YORK	636
PENNSYLVANIA	48
OHIO	11,161
MICHIGAN	2,023
ILLINOIS	5,205
MINNESOTA	74
WISCONSIN	2,944
TOTAL	22,091

WHOLESALING AND MANUFACTURING, 1964

ITEM	NEW YORK	PENN-SYLVANIA	OHIO	INDIANA	ILLINOIS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING:					
ESTABLISHMENTS	27	5	48	6	41
PERSONS ENGAGED:					
AVERAGE FOR SEASON	161	20	568	16	897
AVERAGE FOR YEAR	129	13	426	13	749

ITEM	MICHIGAN	MINNESOTA	WISCONSIN	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING:				
ESTABLISHMENTS	66	10	51	254
PERSONS ENGAGED:				
AVERAGE FOR SEASON	637	119	462	2,880
AVERAGE FOR YEAR	459	42	353	2,184

LAKE ONTARIO - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	TRAP NETS	FYKE AND HOOP NETS	GILL NETS 1-1/4 - 2 INCH MESH	GILL NETS 2-1/8 - 3-7/8 INCH MESH	GILL NETS 4 - 7 INCH MESH	GILL NETS 7-1/8 - 14 INCH MESH
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:							
ON VESSELS, PART-TIME	-	-	-	-	3	3	-
ON BOATS AND SHORE, CASUAL. . .	3	26	12	1	3	2	1
TOTAL FISHERMEN.	3	26	12	1	6	5	1
VESSELS, MOTOR, PART-TIME, TOTAL.	-	-	-	-	1	1	-
TOTAL GROSS TONNAGE.	-	-	-	-	10	10	-
BOATS:							
MOTOR, CASUAL, TOTAL.	1	13	6	1	3	2	1
OTHER, CASUAL, TOTAL.	1	-	-	-	-	-	-
DAYS OPERATED:							
FISHERMEN:							
ON VESSELS.	-	-	-	-	243	264	-
ON BOATS AND SHORE.	36	552	280	3	11	23	3
TOTAL FISHERMEN DAYS	36	552	280	3	254	287	3
CRAFT:							
VESSELS	-	-	-	-	81	88	-
BOATS, MOTOR.	12	276	140	3	11	23	3
TOTAL CRAFT DAYS	12	276	140	3	92	111	3
FISHING EFFORT:							
LIFTS	-	1,333	573	-	-	-	-
LIFTS PER 1,000 LINEAR YARDS. .	2	-	-	1	297	523	1

SEE NOTE ON PAGE 329.

LAKE ERIE - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS	TRAP NETS	FYKE AND HOOP NETS	GILL NETS 1-1/4 - 2 INCH MESH
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS:					
REGULAR	-	-	6	-	-
PART-TIME	3	6	53	-	-
CASUAL.	6	-	46	-	-
ON BOATS AND SHORE:					
REGULAR	4	-	-	-	-
PART-TIME	51	-	8	-	-
CASUAL.	128	-	34	16	2
TOTAL FISHERMEN.	192	6	147	16	2
VESSELS, MOTOR:					
REGULAR	-	-	2	-	-
PART-TIME	1	3	26	-	-
CASUAL.	2	-	23	-	-
TOTAL VESSELS.	3	3	51	-	-
TOTAL GROSS TONNAGE.	34	40	682	-	-

(CONTINUED ON NEXT PAGE)

LAKE ERIE - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964 - Continued

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS	TRAP NETS	FYKE AND HOOP NETS	GILL NETS
					1-1/4 - 2 INCH MESH
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
BOATS:					
MOTOR:					
REGULAR	1	-	-	-	-
PART-TIME	18	-	4	-	-
CASUAL	42	-	17	8	1
TOTAL MOTOR BOATS	61	-	21	8	1
OTHER:					
REGULAR	1	-	-	-	-
PART-TIME	19	-	-	-	-
CASUAL	44	-	-	-	-
TOTAL OTHER BOATS	64	-	-	-	-
DAYS OPERATED:					
FISHERMEN:					
ON VESSELS	228	406	6,392	-	-
ON BOATS AND SHORE	8,026	-	1,506	220	54
TOTAL FISHERMEN DAYS	8,254	406	7,898	220	54
CRAFT:					
VESSELS	76	203	3,089	-	-
BOATS, MOTOR	2,613	-	753	110	27
TOTAL CRAFT DAYS	2,689	203	3,842	110	27
FISHING EFFORT:					
LIFTS	-	-	26,538	531	-
LIFTS PER 1,000 LINEAR YARDS	3,266	-	-	-	12
HOURS TRAWLED	-	722	-	-	-

ITEM	GILL NETS - CONTINUED			LINES, LONG OR SET WITH HOOKS	DIP NETS
	2-1/8 - 3-7/8 INCH MESH	4 - 7 INCH MESH	7-1/8 - 14 INCH MESH		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS:					
PART-TIME	33	3	-	-	-
CASUAL	37	39	4	2	-
ON BOATS AND SHORE:					
PART-TIME	6	-	-	34	-
CASUAL	28	52	6	125	3
TOTAL FISHERMEN	104	94	10	161	3
VESSELS, MOTOR:					
PART-TIME	15	1	-	-	-
CASUAL	18	19	2	1	-
TOTAL VESSELS	33	20	2	1	-
TOTAL GROSS TONNAGE	452	273	20	11	-
BOATS, MOTOR:					
REGULAR	3	-	-	17	-
CASUAL	26	38	4	121	3
TOTAL MOTOR BOATS	29	38	4	138	3
DAYS OPERATED:					
FISHERMEN:					
ON VESSELS	4,018	989	80	16	-
ON BOATS AND SHORE	960	863	48	4,540	34
TOTAL FISHERMEN DAYS	4,978	1,852	128	4,556	34

(CONTINUED ON NEXT PAGE)

LAKE ERIE - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964 - Continued

ITEM	GILL NETS - CONTINUED			LINES, LONG OR SET WITH HOOKS	DIP NETS
	2-1/8 - 3-7/8 INCH MESH	4 - 7 INCH MESH	7-1/8 - 14 INCH MESH		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
DAYS OPERATED - CONTINUED:					
CRAFT:					
VESSELS	1,899	433	40	8	-
BOATS, MOTOR.	644	604	42	3,060	34
TOTAL CRAFT DAYS	2,543	1,037	82	3,068	34
FISHING EFFORT:					
LIFTS PER 1,000 LINEAR YARDS. .	7,974	1,904	31	-	-
LIFTS PER 1,000 HOOKS	-	-	-	1,343	-
DAYS FISHED	-	-	-	-	34

SEE NOTE ON PAGE 329.

LAKE HURON - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	POUND NETS	TRAP NETS	FYKE AND HOOP NETS
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS:				
PART-TIME	-	-	14	-
CASUAL.	-	-	26	-
ON BOATS AND SHORE:				
PART-TIME	7	2	19	2
CASUAL.	39	18	70	9
TOTAL FISHERMEN.	46	20	129	11
VESSELS, MOTOR:				
PART-TIME	-	-	7	-
CASUAL.	-	-	12	-
TOTAL VESSELS.	-	-	19	-
TOTAL GROSS TONNAGE.	-	-	207	-
BOATS:				
MOTOR:				
PART-TIME	2	1	9	1
CASUAL.	13	9	35	[illegible]
TOTAL MOTOR BOATS.	15	10	44	6
OTHER:				
PART-TIME	2	-	-	-
CASUAL.	13	-	-	-
TOTAL OTHER BOATS.	15	-	-	-
DAYS OPERATED:				
FISHERMEN:				
ON VESSELS.	-	-	1,820	-
ON BOATS AND SHORE.	923	314	2,783	178
TOTAL FISHERMEN DAYS	923	314	4,603	178
CRAFT:				
VESSELS	-	-	870	-
BOATS, MOTOR.	295	133	1,360	94
TOTAL CRAFT DAYS	295	133	2,230	94
FISHING EFFORT:				
LIFTS	-	393	11,130	396
LIFTS PER 1,000 LINEAR YARDS. .	175	-	-	-

(CONTINUED ON NEXT PAGE)

LAKE HURON - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964 - Continued

ITEM	GILL NETS 1-1/4 - 2 INCH MESH	2-1/8 - 3-7/8 INCH MESH	4 - 7 INCH MESH	7-1/8 - 14 INCH MESH	LINES, LONG OR SET WITH HOOKS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS:					
REGULAR	-	9	-	-	-
PART-TIME	-	41	2	-	3
CASUAL	2	47	15	2	7
ON BOATS AND SHORE:					
PART-TIME	-	10	-	16	37
CASUAL	1	62	47	37	42
TOTAL FISHERMEN	3	169	64	55	89
VESSELS, MOTOR:					
REGULAR	-	3	-	-	-
PART-TIME	-	19	1	-	1
CASUAL	1	22	7	1	3
TOTAL VESSELS	1	44	8	1	4
TOTAL GROSS TONNAGE	41	873	143	12	107
BOATS, MOTOR:					
PART-TIME	-	5	-	8	17
CASUAL	1	49	30	23	32
TOTAL MOTOR BOATS	1	54	30	31	49
DAYS OPERATED:					
FISHERMEN:					
ON VESSELS	10	7,007	497	12	354
ON BOATS AND SHORE	3	1,673	542	2,040	3,609
TOTAL FISHERMEN DAYS	13	8,680	1,039	2,052	3,963
CRAFT:					
VESSELS	5	3,080	227	6	177
BOATS, MOTOR	3	1,106	314	1,058	1,994
TOTAL CRAFT DAYS	8	4,186	541	1,064	2,171
FISHING EFFORT:					
LIFTS PER 1,000 LINEAR YARDS	40	15,622	1,235	1,027	-
LIFTS PER 1,000 HOOKS	-	-	-	-	1,482

SEE NOTE ON PAGE 329.

LAKE MICHIGAN - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS	POUND NETS	TRAP NETS	FYKE AND HOOP NETS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS:					
REGULAR	-	9	-	-	-
PART-TIME	-	16	-	-	3
CASUAL	6	2	18	16	-
ON BOATS AND SHORE:					
PART-TIME	3	-	7	2	24
CASUAL	18	-	106	6	28
TOTAL FISHERMEN	27	27	131	24	55
VESSELS, MOTOR:					
REGULAR	-	3	-	-	-
PART-TIME	-	8	-	-	1
CASUAL	2	1	8	8	-
TOTAL VESSELS	2	12	8	8	1
TOTAL GROSS TONNAGE	21	403	127	96	13

(CONTINUED ON NEXT PAGE)

LAKE MICHIGAN - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964 - Continued

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS	POUND NETS	TRAP NETS	FYKE AND HOOP NETS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
BOATS:					
MOTOR:					
PART-TIME	1	-	3	1	13
CASUAL	6	-	50	3	14
TOTAL MOTOR BOATS	7	-	53	4	27
OTHER:					
PART-TIME	1	-	-	-	-
CASUAL	8	-	-	-	-
TOTAL OTHER BOATS	9	-	-	-	-
DAYS OPERATED:					
FISHERMEN:					
ON VESSELS	112	3,914	373	502	363
ON BOATS AND SHORE	429	-	2,260	212	2,650
TOTAL FISHERMEN DAYS	541	3,914	2,633	714	3,013
CRAFT:					
VESSELS	54	1,624	181	251	121
BOATS, MOTOR	143	-	1,099	106	1,326
TOTAL CRAFT DAYS	197	1,624	1,280	357	1,447
FISHING EFFORT:					
LIFTS	-	-	2,965	1,963	13,733
LIFTS PER 1,000 LINEAR YARDS	142	-	-	-	-
HOURS TRAWLED	-	9,250	-	-	-

ITEM	GILL NETS				LINES	
	1-1/4 - 2 INCH MESH	2-1/8 - 3-7/8 INCH MESH	4 - 7 INCH MESH	7-1/8 - 14 INCH MESH	HAND	LONG OR SET WITH HOOKS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS:						
REGULAR	-	78	-	-	-	-
PART-TIME	-	131	35	-	-	-
CASUAL	14	113	111	2	-	-
ON BOATS AND SHORE:						
REGULAR	-	6	-	-	-	-
PART-TIME	-	62	6	2	-	-
CASUAL	29	293	149	14	1	2
TOTAL FISHERMEN	43	683	301	18	1	2
VESSELS, MOTOR:						
REGULAR	-	26	-	-	-	-
PART-TIME	-	62	14	-	-	-
CASUAL	6	54	50	1	-	-
TOTAL VESSELS	6	142	64	1	-	-
TOTAL GROSS TONNAGE	68	3,173	1,391	11	-	-
BOATS, MOTOR:						
REGULAR	-	2	-	-	-	-
PART-TIME	-	30	3	-	-	-
CASUAL	26	232	95	10	1	2
TOTAL MOTOR BOATS	26	264	98	10	1	2
DAYS OPERATED:						
FISHERMEN:						
ON VESSELS	102	31,369	5,139	2	-	-
ON BOATS AND SHORE	154	10,583	2,293	283	15	36
TOTAL FISHERMEN DAYS	256	41,952	7,432	285	15	36
CRAFT:						
VESSELS	46	13,090	2,148	1	-	-
BOATS, MOTOR	138	6,547	1,475	227	15	36
TOTAL CRAFT DAYS	184	19,637	3,623	228	15	36
FISHING EFFORT:						
LIFTS PER 1,000 LINEAR YARDS	71	47,400	11,810	185	-	-
LIFTS PER 1,000 HOOKS	-	-	-	-	-	15
DAYS FISHED	-	-	-	-	15	-

SEE NOTE ON PAGE 329.

LAKE SUPERIOR - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964

ITEM	POUND NETS	TRAP NETS	FYKE AND HOOP NETS	GILL NETS			DIP NETS
				1-1/4 - 2 INCH MESH	2-1/8 - 3-7/8 INCH MESH	4 - 7 INCH MESH	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:							
ON VESSELS:							
REGULAR	-	-	-	-	15	-	-
PART-TIME	2	2	-	4	72	26	-
CASUAL.	15	4	-	35	79	67	-
ON BOATS AND SHORE:							
REGULAR	-	-	-	-	12	-	-
PART-TIME	-	-	-	-	86	13	-
CASUAL.	50	6	1	21	154	107	1
TOTAL FISHERMEN.	67	12	1	60	418	213	1
VESSELS, MOTOR:							
REGULAR	-	-	-	-	5	-	-
PART-TIME	1	1	-	2	34	12	-
CASUAL.	7	2	-	16	39	32	-
TOTAL VESSELS.	8	3	-	18	78	44	-
TOTAL GROSS TONNAGE.	114	37	-	310	1,332	763	-
BOATS, MOTOR:							
REGULAR	-	-	-	-	4	-	-
PART-TIME	-	-	-	-	43	6	-
CASUAL.	25	3	1	14	138	80	1
TOTAL MOTOR.	25	3	1	14	185	86	1
DAYS OPERATED:							
FISHERMEN:							
ON VESSELS.	416	304	-	786	11,604	3,467	-
ON BOATS AND SHORE.	834	146	3	369	13,287	2,467	8
TOTAL FISHERMEN DAYS	1,250	450	3	1,155	24,891	5,934	8
CRAFT:							
VESSELS	203	152	-	365	5,042	1,574	-
BOATS, MOTOR.	417	73	3	301	7,115	1,634	8
TOTAL CRAFT DAYS	620	225	3	666	12,157	3,208	8
FISHING EFFORT:							
LIFTS	2,029	1,552	3	-	-	-	-
LIFTS PER 1,000 LINEAR YARDS. .	-	-	-	684	16,887	7,502	-
DAYS FISHED	-	-	-	-	-	-	8

SEE NOTE ON PAGE 329.

LAKE OF THE WOODS, NAMAKAN LAKE, AND RAINY LAKE OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964

ITEM	OTTER TRAWLS	POUND NETS	TRAP NETS	FYKE AND HOOP NETS	GILL NETS
					4 - 7 INCH MESH
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS, PART-TIME	4	-	-	-	-
ON BOATS AND SHORE:					
PART-TIME	-	-	4	-	38
CASUAL.	-	4	-	4	5
TOTAL FISHERMEN.	4	4	4	4	43

(CONTINUED ON NEXT PAGE)

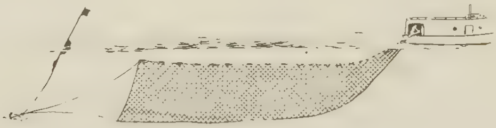
LAKE OF THE WOODS, NAMAKAN LAKE, AND RAINY LAKE
OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964 - Continued

ITEM	OTTER TRAWLS	POUND NETS	TRAP NETS	FYKE AND HOOP NETS	GILL NETS
					4 - 7 INCH MESH
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
VESSELS, MOTOR, PART-TIME, TOTAL.	2	-	-	-	-
TOTAL GROSS TONNAGE.	49	-	-	-	-
BOATS, MOTOR:					
PART-TIME	-	-	2	-	19
CASUAL.	-	2	-	2	5
TOTAL MOTOR BOATS.	-	2	2	2	24
DAYS OPERATED:					
FISHERMEN:					
ON VESSELS.	588	-	-	-	-
ON BOATS AND SHORE.	-	68	386	34	4,258
TOTAL FISHERMEN DAYS . . . :	588	68	386	34	4,258
CRAFT:					
VESSELS	294	-	-	-	-
BOATS, MOTOR.	-	34	193	17	2,251
TOTAL CRAFT DAYS	294	34	193	17	2,251
FISHING EFFORT:					
LIFTS	-	34	1,334	152	-
LIFTS PER 1,000 LINEAR YARDS. .	-	-	-	-	2,095
HOURS TRAWLED	1,468	-	-	-	-

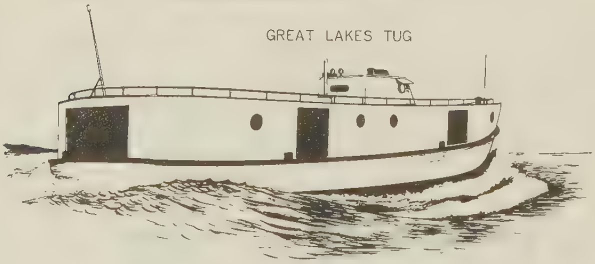
NOTE:--DATA ON OPERATING UNITS AND FISHING EFFORT ARE NOT AVAILABLE FOR LAKE ST. CLAIR.

SEE NOTE ON PAGE 329.

GILL NET



GREAT LAKES TUG



CATCH BY LAKE, STATE, AND GEAR, 1964

SPECIES	LAKE ONTARIO							
	NEW YORK							
	HAUL SEINES		TRAP NETS		FYKE AND HOOP NETS		GILL NETS	
							1-1/4 - 2 INCH MESH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	(1)	(1)	-	-	-	-
BOWFIN	-	-	1,600	$94	-	-	-	-
BULLHEADS	4,500	$1,209	36,500	9,867	3,400	$906	-	-
BURBOT	-	-	400	19	-	-	-	-
CARP	23,200	697	15,600	469	300	8	-	-
CATFISH	-	-	800	112	-	-	-	-
CISCO	-	-	800	218	-	-	-	-
CRAPPIE	-	-	700	74	-	-	-	-
EELS, COMMON	-	-	32,500	6,503	200	47	-	-
GARFISH	-	-	(1)	(1)	-	-	-	-
ROCK BASS	-	-	3,600	286	(1)	2	-	-
SHEEPSHEAD	-	-	(1)	1	-	-	-	-
SMELT	-	-	-	-	100	34	400	$18
SUCKERS	100	10	13,200	1,052	100	8	-	-
SUNFISH	-	-	11,700	1,286	(1)	5	-	-
WHITE BASS	-	-	900	123	-	-	-	-
WHITEFISH, COMMON	-	-	200	101	-	-	-	-
WHITE PERCH	-	-	3,500	418	-	-	-	-
YELLOW PERCH	-	-	13,800	1,247	100	6	-	-
YELLOW PIKE	-	-	1,000	392	-	-	-	-
TOTAL	27,800	1,916	136,800	22,262	4,200	1,016	400	18

SPECIES	LAKE ONTARIO - CONTINUED							
	NEW YORK - CONTINUED							
	GILL NETS - CONTINUED						TOTAL	
	2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH		7-1/8 - 14 INCH MESH			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	-	-	-	-	(1)	(1)
BOWFIN	-	-	-	-	-	-	1,600	$94
BULLHEADS	100	$26	-	-	-	-	44,500	12,008
BURBOT	-	-	-	-	-	-	400	19
CARP	-	-	-	-	-	-	39,100	1,174
CATFISH	-	-	-	-	-	-	800	112
CISCO	300	80	7,000	$2,037	-	-	8,100	2,335
CRAPPIE	-	-	-	-	-	-	700	74
EELS, COMMON	-	-	-	-	-	-	32,700	6,550
GARFISH	-	-	-	-	-	-	(1)	(1)
PIKE OR PICKEREL	100	6	-	-	-	-	100	6
ROCK BASS	-	-	-	-	-	-	3,600	288
SHEEPSHEAD	-	-	-	-	-	-	(1)	1
SMELT	(1)	1	-	-	-	-	500	53
STURGEON	-	-	100	45	(1)	$31	100	76
SUCKERS	(1)	2	-	-	-	-	13,400	1,072
SUNFISH	-	-	-	-	-	-	11,700	1,291
WHITE BASS	2,700	351	-	-	-	-	3,600	474
WHITEFISH, COMMON	-	-	16,300	8,978	-	-	16,500	9,079
WHITE PERCH	-	-	-	-	-	-	3,500	418
YELLOW PERCH	69,300	6,237	-	-	-	-	83,200	7,490
YELLOW PIKE	1,500	624	-	-	-	-	2,500	1,016
TOTAL	74,000	7,327	23,400	11,060	(1)	31	266,600	43,630

SPECIES	LAKE ERIE					
	NEW YORK					
	GILL NETS				TOTAL	
	2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUE PIKE	(1)	$2	-	-	(1)	$2
CARP	-	-	(1)	(1)	(1)	(1)
CATFISH	100	13	400	$92	500	105
CISCO	(1)	3	-	-	(1)	3
SHEEPSHEAD	100	3	900	35	1,000	38
SMELT	300	16	-	-	300	16
SUCKERS	-	-	400	8	400	8

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE ERIE - CONTINUED					
	NEW YORK - CONTINUED					
	GILL NETS				TOTAL	
	2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
WHITE BASS.	6,900	$970	2,400	$338	9,300	$1,308
WHITEFISH, COMMON . . .	-	-	(1)	3	(1)	3
YELLOW PERCH.	81,400	15,460	2,800	528	84,200	15,988
YELLOW PIKE	9,400	3,208	74,500	25,316	83,900	28,524
TOTAL.	98,200	19,675	81,400	26,320	179,600	45,995

SPECIES	LAKE ERIE - CONTINUED					
	PENNSYLVANIA					
	OTTER TRAWLS, FISH FOR HUMAN FOOD		FLOATING TRAPS		GILL NETS	
					2-1/8 - 3-7/8 INCH MESH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUE PIKE	-	-	-	-	(1)	$1
CARP.	-	-	-	-	(1)	(1)
CATFISH	-	-	(1)	$1	400	90
CISCO	-	-	100	40	100	17
QUILLBACK	-	-	-	-	(1)	1
SHEEPSHEAD.	-	-	-	-	24,000	479
SMELT	227,300	$4,773	217,200	17,811	500	42
STURGEON.	-	-	100	72	-	-
SUCKERS	-	-	-	-	1,400	41
WHITE BASS.	-	-	200	22	8,600	1,135
WHITEFISH, COMMON . . .	-	-	1,400	671	200	96
YELLOW PERCH.	-	-	12,200	2,325	299,300	57,471
YELLOW PIKE	-	-	(1)	9	5,300	1,652
TOTAL.	227,300	4,773	231,200	20,951	339,800	61,025

SPECIES	LAKE ERIE - CONTINUED							
	PENNSYLVANIA - CONTINUED				OHIO			
	GILL NETS - CONT'D.		TOTAL		HAUL SEINES		TRAP NETS	
	4 - 7 INCH MESH							
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUE PIKE	(1)	$4	(1)	$5	-	-	100	$19
BUFFALOFISH	-	-	-	-	58,000	$7,372	35,100	4,455
BULLHEADS	-	-	-	-	83,400	8,336	35,100	3,513
BURBOT.	200	3	200	3	1,000	49	1,800	90
CARP.	-	-	(1)	(1)	1,999,000	53,971	201,300	5,436
CATFISH	600	119	1,000	210	723,700	196,850	242,600	65,992
CISCO	(1)	1	200	58	-	-	(1)	7
GIZZARD SHAD.	-	-	-	-	1,400	53	7,900	300
GOLDFISH.	-	-	-	-	157,800	4,262	900	23
MOONEYE OR GOLDEYE. . .	-	-	-	-	200	6	(1)	(1)
QUILLBACK	-	-	(1)	1	-	-	100	4
SAUGER.	-	-	-	-	-	-	(1)	(1)
SHEEPSHEAD.	1,700	34	25,700	513	2,115,000	35,955	2,234,100	37,980
SMELT	(1)	(1)	445,000	22,626	-	-	(1)	1
STURGEON.	-	-	100	72	-	-	600	534
SUCKERS	100	2	1,500	43	21,900	1,052	153,800	7,385
WHITE BASS.	2,000	268	10,800	1,425	336,000	56,108	940,400	157,042
WHITEFISH, COMMON . . .	400	172	2,000	939	100	69	500	284
YELLOW PERCH.	1,200	236	312,700	60,032	37,000	5,398	880,600	128,565
YELLOW PIKE	12,100	3,818	17,400	5,479	18,000	7,261	212,100	85,162
TOTAL.	18,300	4,657	816,600	91,406	5,552,500	376,742	4,947,000	496,792

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE ERIE - CONTINUED							
	OHIO - CONTINUED							
	FYKE AND HOOP NETS		GILL NETS					
			1-1/4 - 2 INCH MESH		2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUE PIKE	-	-	-	-	(1)	$8	-	-
BUFFALOFISH	600	$72	-	-	-	-	600	$72
BULLHEADS	100	10	-	-	100	11	(1)	(1)
BURBOT.	-	-	-	-	400	18	-	-
CARP.	400	11	-	-	700	20	28,300	765
CATFISH	1,800	484	400	$111	5,300	1,436	13,300	3,629
CISCO	-	-	-	-	500	143	(1)	4
GIZZARD SHAD.	100	3	-	-	(1)	(1)	200	6
GOLDFISH.	-	-	-	-	-	-	(1)	1
SAUGER.	-	-	-	-	(1)	2	-	-
SHEEPSHEAD.	3,000	51	100	2	12,300	210	54,300	923
SMELT	-	-	-	-	1,300	51	-	-
STURGEON.	-	-	-	-	-	-	100	68
SUCKERS	700	36	-	-	3,400	162	3,600	170
WHITE BASS.	39,200	6,558	6,100	1,012	56,100	9,361	37,100	6,194
WHITEFISH, COMMON . . .	-	-	-	-	100	74	100	56
YELLOW PERCH.	2,000	289	1,300	197	164,400	23,997	700	103
YELLOW PIKE	1,100	422	-	-	41,000	16,922	68,000	24,001
TOTAL.	49,000	7,936	7,900	1,322	285,600	52,415	206,300	35,992

SPECIES	LAKE ERIE - CONTINUED							
	OHIO - CONTINUED							
	GILL NETS - CONT'D.		LINES, LONG OR SET WITH HOOKS		DIP NETS		TOTAL	
	7-1/8 - 14 INCH MESH							
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUE PIKE	-	-	-	-	-	-	100	$27
BUFFALOFISH	900	$113	(1)	$2	-	-	95,200	12,086
BULLHEADS	-	-	3,500	352	(1)	(1)	122,200	12,222
BURBOT.	-	-	(1)	1	-	-	3,200	158
CARP.	40,400	1,092	3,300	87	300	$6	2,273,700	61,388
CATFISH	(1)	9	127,500	34,670	(1)	1	1,114,600	303,182
CISCO	-	-	-	-	-	-	500	154
GIZZARD SHAD.	-	-	-	-	-	-	9,600	362
GOLDFISH.	-	-	(1)	(1)	(1)	(1)	158,700	4,286
MOONEYE OR GOLDEYE. . .	-	-	(1)	(1)	-	-	200	6
QUILLBACK	-	-	-	-	-	-	100	4
SAUGER.	-	-	(1)	3	-	-	(1)	5
SHEEPSHEAD.	800	13	3,300	56	(1)	(1)	4,422,900	75,190
SMELT	-	-	-	-	-	-	1,300	52
STURGEON.	100	65	-	-	-	-	800	667
SUCKERS	-	-	-	-	(1)	(1)	183,400	8,805
WHITE BASS.	-	-	200	37	(1)	1	1,415,100	236,313
WHITEFISH, COMMON . . .	-	-	(1)	2	-	-	800	485
YELLOW PERCH.	-	-	100	17	(1)	4	1,086,100	158,570
YELLOW PIKE	1,700	470	-	-	(1)	3	341,900	134,241
TOTAL.	43,900	1,762	137,900	35,227	300	15	11,230,400	1,008,203

SPECIES	LAKE ERIE - CONTINUED							
	MICHIGAN							
	HAUL SEINES		TRAP NETS		FYKE AND HOOP NETS		GILL NETS	
							2-1/8 - 3-7/8 INCH MESH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	1,200	$131	24,400	$2,735	-	-	-	-
BULLHEADS	2,500	377	1,000	143	1,000	$151	-	-
CARP.	458,600	12,381	167,200	4,516	8,300	224	600	$16
CATFISH	21,700	5,807	25,800	6,895	-	-	100	16
GIZZARD SHAD.	-	-	1,900	43	-	-	-	-
ROCK BASS	-	-	(1)	1	-	-	-	-
SHEEPSHEAD.	1,000	28	97,500	2,812	1,200	35	-	-
SUCKERS	-	-	54,400	1,371	-	-	-	-
WHITE BASS.	900	130	97,800	13,667	800	115	400	52
YELLOW PERCH.	-	-	34,800	6,140	1,900	342	(1)	8
YELLOW PIKE	100	25	121,300	47,892	-	-	(1)	19
TOTAL.	486,000	18,879	626,100	86,215	13,200	867	1,100	111

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE ERIE - CONTINUED					
	MICHIGAN - CONTINUED					
	GILL NETS - CONTINUED		LINES, LONG OR SET WITH HOOKS		TOTAL	
	7-1/8 - 14 INCH MESH					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	-	-	-	-	25,600	$2,866
BULLHEADS	-	-	100	$6	4,600	677
CARP	1,000	$27	-	-	635,700	17,164
CATFISH	100	12	(1)	7	47,700	12,737
GIZZARD SHAD	-	-	-	-	1,900	43
ROCK BASS	-	-	-	-	(1)	1
SHEEPSHEAD	-	-	-	-	99,700	2,875
SUCKERS	-	-	-	-	54,400	1,371
WHITE BASS	-	-	-	-	99,900	13,964
YELLOW PERCH	-	-	-	-	36,700	6,490
YELLOW PIKE	100	49	-	-	121,500	47,985
TOTAL	1,200	88	100	13	1,127,700	106,173

SPECIES	LAKE HURON							
	MICHIGAN							
	HAUL SEINES		POUND NETS		TRAP NETS		FYKE AND HOOP NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	-	-	(1)	(1)	-	-
BOWFIN	-	-	-	-	200	$11	-	-
BUFFALOFISH	-	-	-	-	(1)	1	-	-
BULLHEADS	900	$110	-	-	2,900	368	3,800	$486
CARP	263,700	11,385	-	-	145,400	6,279	400	18
CATFISH	4,500	1,244	-	-	64,300	17,624	200	44
CRAPPIE	-	-	-	-	900	216	-	-
LAKE HERRING	-	-	100	$9	3,500	525	-	-
PIKE OR PICKEREL	1,200	430	-	-	30,600	10,850	600	236
QUILLBACK	-	-	-	-	9,000	319	-	-
ROCK BASS	-	-	-	-	7,600	1,323	1,500	254
SHEEPSHEAD	100	2	-	-	21,400	741	-	-
SMELT	-	-	27,600	14,011	4,300	2,181	-	-
STURGEON	-	-	(1)	37	400	392	-	-
SUCKERS	68,100	3,249	-	-	334,000	15,934	11,000	526
WHITE BASS	-	-	-	-	3,300	608	-	-
WHITEFISH:								
COMMON	-	-	8,000	4,333	133,900	72,193	-	-
MENOMINEE	-	-	-	-	200	39	-	-
YELLOW PERCH	700	145	400	76	234,300	46,971	3,800	754
YELLOW PIKE	-	-	-	-	65,800	26,671	-	-
TOTAL	339,200	16,565	36,100	18,466	1,062,000	203,246	21,300	2,318

SPECIES	LAKE HURON - CONTINUED							
	MICHIGAN - CONTINUED							
	GILL NETS							
	1-1/4 - 2 INCH MESH		2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH		7-1/8 - 14 INCH MESH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	1,200	$21	-	-	-	-
BULLHEADS	-	-	100	8	-	-	-	-
CARP	-	-	1,200	53	9,900	$426	581,800	$25,123
CATFISH	-	-	200	49	600	156	3,200	886
CHUBS	3,800	$749	1,252,400	242,116	-	-	-	-
LAKE HERRING	-	-	36,200	5,394	-	-	-	-
PIKE OR PICKEREL	-	-	400	125	2,800	992	300	106
ROCK BASS	-	-	(1)	2	(1)	9	100	10
SAUGER	-	-	(1)	5	100	15	-	-
SHEEPSHEAD	-	-	(1)	(1)	(1)	1	(1)	1
SMELT	100	30	-	-	-	-	-	-
SUCKERS	-	-	4,500	212	18,900	904	1,000	45
WHITE BASS	-	-	-	-	100	12	-	-
WHITEFISH:								
COMMON	-	-	200	121	23,200	12,490	-	-
MENOMINEE	-	-	2,300	518	(1)	3	-	-
YELLOW PERCH	-	-	596,700	119,639	300	71	(1)	(1)
YELLOW PIKE	-	-	300	141	12,300	4,965	900	357
TOTAL	3,900	779	1,895,700	368,404	68,200	20,044	587,300	26,528

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE HURON - CONTINUED				LAKE MICHIGAN			
	MICHIGAN - CONTINUED				MICHIGAN			
	LINES, LONG OR SET WITH HOOKS		TOTAL		HAUL SEINES		OTTER TRAWLS	
							FISH FOR ANIMAL FOOD	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	1,200	$21	400	$6	2,278,400	$34,632
BOWFIN	-	-	200	11	-	-	-	-
BUFFALOFISH	-	-	(1)	1	-	-	-	-
BULLHEADS	(1)	$1	7,700	973	-	-	-	-
CARP	600	26	1,003,000	43,310	200	6	-	-
CATFISH	80,100	21,973	153,100	41,976	-	-	-	-
CHUBS	-	-	1,256,200	242,865	-	-	227,100	4,073
CRAPPIE	-	-	900	216	-	-	-	-
LAKE HERRING	-	-	39,800	5,928	-	-	-	-
PIKE OR PICKEREL	-	-	35,900	12,739	-	-	-	-
QUILLBACK	-	-	9,000	319	-	-	-	-
ROCK BASS	-	-	9,200	1,598	-	-	-	-
SAUGER	-	-	100	20	-	-	-	-
SHEEPSHEAD	100	2	21,600	747	-	-	-	-
SMELT	-	-	32,000	16,222	-	-	75,500	1,825
STURGEON	-	-	400	429	-	-	-	-
SUCKERS	-	-	437,500	20,870	200	6	-	-
WHITE BASS	-	-	3,400	620	-	-	-	-
WHITEFISH:								
COMMON	-	-	165,300	89,137	-	-	-	-
MENOMINEE	-	-	2,500	560	-	-	-	-
YELLOW PERCH	-	-	836,200	167,656	100	20	-	-
YELLOW PIKE	-	-	79,300	32,134	-	-	-	-
TOTAL	80,800	22,002	4,094,500	678,352	900	38	2,581,000	40,530

SPECIES	LAKE MICHIGAN - CONTINUED							
	MICHIGAN - CONTINUED							
	OTTER TRAWLS - CONT'D.		POUND NETS		TRAP NETS		FYKE AND HOOP NETS	
	FISH FOR HUMAN FOOD							
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	1,048,700	$15,940	-	-	-	-
BULLHEADS	(1)	(1)	-	-	-	-	(1)	$1
CARP	1,200	$42	100	2	100	$5	-	-
CHUBS	37,800	7,373	(1)	4	-	-	-	-
LAKE HERRING	2,600	310	100	15	300	32	-	-
PIKE OR PICKEREL	-	-	1,300	287	1,100	246	-	-
SMELT	38,000	1,120	668,700	19,719	10,400	307	-	-
STURGEON	-	-	300	271	200	201	-	-
SUCKERS	200	8	1,900	77	12,200	485	-	-
WHITEFISH:								
COMMON	2,100	1,459	128,900	91,522	115,200	81,767	-	-
MENOMINEE	-	-	(1)	1	-	-	-	-
YELLOW PERCH	50,100	9,307	100	9	22,200	4,121	10,800	2,011
YELLOW PIKE	100	31	1,000	399	10,200	4,177	-	-
TOTAL	132,100	19,650	1,851,100	128,246	171,900	91,341	10,800	2,012

SPECIES	LAKE MICHIGAN - CONTINUED							
	MICHIGAN - CONTINUED							
	GILL NETS							
	1-1/4 - 2 INCH MESH		2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH		7-1/8 - 14 INCH MESH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	800	$11	1,400	$22	(1)	(1)	-	-
BURBOT	-	-	(1)	3	-	-	-	-
CARP	-	-	(1)	(1)	2,500	$82	10,200	$338
CATFISH	-	-	(1)	4	-	-	-	-
CHUBS	-	-	1,092,400	212,880	(1)	3	-	-
GIZZARD SHAD	-	-	(1)	(1)	-	-	-	-

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE MICHIGAN - CONTINUED							
	MICHIGAN - CONTINUED							
	GILL NETS							
	1-1/4 - 2 INCH MESH		2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH		7-1/8 - 14 INCH MESH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
LAKE HERRING.	-	-	16,700	$1,953	(1)	$4	-	-
LAKE TROUT.	-	-	100	29	(1)	13	-	-
PIKE OR PICKEREL. . . .	-	-	400	88	6,600	1,506	-	-
ROCK BASS	-	-	(1)	2	-	-	-	-
SAUGER.	-	-	(1)	1	400	38	-	-
SHEEPSHEAD.	-	-	-	-	(1)	1	-	-
SMELT	9,400	$278	(1)	(1)	-	-	-	-
STURGEON.	-	-	-	-	-	-	2,500	$2,160
SUCKERS	-	-	4,600	184	18,900	753	-	-
WHITEFISH:								
COMMON.	-	-	200	116	337,700	239,712	-	-
MENOMINEE	-	-	8,800	2,012	300	73	-	-
YELLOW PERCH.	-	-	2,281,700	423,711	1,100	194	-	-
YELLOW PIKE	-	-	(1)	7	17,900	7,275	(1)	5
TOTAL.	10,200	289	3,406,300	641,012	385,400	249,654	12,700	2,503

SPECIES	LAKE MICHIGAN - CONTINUED					
	MICHIGAN - CONTINUED					
	LINES				TOTAL	
	HAND		LONG OR SET WITH HOOKS			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES.	-	-	-	-	3,329,700	$50,611
BULLHEADS	-	-	-	-	(1)	1
BURBOT.	-	-	-	-	(1)	3
CARP.	-	-	-	-	14,300	475
CATFISH	-	-	-	-	(1)	4
CHUBS	-	-	-	-	1,357,300	224,333
GIZZARD SHAD.	-	-	-	-	(1)	(1)
LAKE HERRING.	-	-	-	-	19,700	2,314
LAKE TROUT.	-	-	-	-	100	42
PIKE OR PICKEREL. . . .	-	-	-	-	9,400	2,127
ROCK BASS	-	-	-	-	(1)	2
SAUGER.	-	-	-	-	400	39
SHEEPSHEAD.	-	-	-	-	(1)	1
SMELT	-	-	-	-	802,000	23,249
STURGEON.	-	-	200	$174	3,200	2,806
SUCKERS	-	-	-	-	38,000	1,513
WHITEFISH:						
COMMON.	-	-	-	-	584,100	414,576
MENOMINEE	-	-	-	-	9,100	2,086
YELLOW PERCH.	100	$24	-	-	2,366,200	439,397
YELLOW PIKE	-	-	-	-	29,200	11,894
TOTAL.	100	24	200	174	8,562,700	1,175,473

SPECIES	LAKE MICHIGAN - CONTINUED					
	INDIANA		ILLINOIS		WISCONSIN	
	GILL NETS		GILL NETS		HAUL SEINES	
	2-1/8 - 3-7/8 INCH MESH		2-1/8 - 3-7/8 INCH MESH			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES.	(1)	$1	3,400	$51	-	-
CARP.	-	-	-	-	1,201,700	$24,035
CHUBS	-	-	21,800	4,741	-	-
LAKE HERRING.	-	-	1,400	162	-	-
SUCKERS	(1)	1	-	-	-	-
YELLOW PERCH.	11,300	1,949	618,000	106,910	-	-
TOTAL.	11,300	1,951	644,600	111,864	1,201,700	24,035

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE MICHIGAN - CONTINUED							
	WISCONSIN - CONTINUED							
	OTTER TRAWLS				POUND NETS		FYKE AND HOOP NETS	
	FISH FOR ANIMAL FOOD		FISH FOR HUMAN FOOD					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	5,481,700	$109,632	-	-	2,920,300	$58,406	2,200	$44
BULLHEADS	-	-	-	-	(1)	(1)	31,400	2,514
BURBOT	100	7	-	-	2,700	138	11,000	548
CARP	-	-	-	-	400	8	31,100	622
CATFISH	-	-	-	-	-	-	100	21
CHUBS	1,401,500	42,045	124,500	$28,631	-	-	-	-
LAKE HERRING	-	-	800	107	-	-	(1)	(1)
PIKE OR PICKEREL	-	-	-	-	(1)	3	18,300	2,189
SCULPIN	2,400	49	-	-	-	-	-	-
SMELT	-	-	65,600	2,622	74,900	2,996	-	-
SUCKERS	-	-	-	-	22,700	907	120,500	4,819
WHITEFISH, COMMON	-	-	(1)	2	50,200	27,627	(1)	4
YELLOW PERCH	-	-	700	106	100	19	444,500	66,682
YELLOW PIKE	-	-	-	-	100	19	4,000	1,616
TOTAL	6,885,700	151,733	191,600	31,468	3,071,400	90,123	663,100	79,059

SPECIES	LAKE MICHIGAN - CONTINUED					
	WISCONSIN - CONTINUED					
	GILL NETS					
	1-1/4 - 2 INCH MESH		2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	6,000	$120	(1)	(1)
BOWFIN	-	-	-	-	(1)	(1)
BULLHEADS	-	-	200	17	-	-
BURBOT	-	-	(1)	1	700	$33
CARP	-	-	100	2	2,500	49
CATFISH	-	-	(1)	7	-	-
CHUBS	-	-	2,265,900	489,468	1,100	205
LAKE HERRING	-	-	11,900	1,537	700	92
LAKE TROUT	-	-	100	71	(1)	5
PIKE OR PICKEREL	-	-	100	8	9,200	1,109
SMELT	15,500	$617	4,100	165	6,500	262
SUCKERS	-	-	2,200	87	31,500	1,263
WHITEFISH:						
COMMON	-	-	-	-	142,700	78,479
MENOMINEE	-	-	2,400	509	-	-
YELLOW PERCH	-	-	2,394,100	359,110	100	7
YELLOW PIKE	-	-	400	161	1,600	656
TOTAL	15,500	617	4,687,500	851,263	196,600	82,160

SPECIES	LAKE MICHIGAN - CONTINUED				LAKE SUPERIOR			
	WISCONSIN - CONTINUED				MICHIGAN			
	GILL NETS - CONT'D.		TOTAL		POUND NETS		TRAP NETS	
	7-1/8 - 14 INCH MESH							
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	8,410,200	$168,202	-	-	-	-
BOWFIN	-	-	(1)	(1)	-	-	-	-
BULLHEADS	-	-	31,600	2,531	-	-	-	-
BURBOT	-	-	14,500	727	-	-	-	-
CARP	69,400	$1,388	1,305,200	26,104	(1)	$2	-	-
CATFISH	-	-	100	28	-	-	-	-
CHUBS	-	-	3,793,000	560,349	-	-	-	-
LAKE HERRING	-	-	13,400	1,736	10,500	275	(1)	(1)
LAKE TROUT	-	-	100	76	-	-	-	-
PIKE OR PICKEREL	-	-	27,600	3,309	-	-	(1)	$3
SCULPIN	-	-	2,400	49	-	-	-	-
SMELT	-	-	166,600	6,662	251,300	14,912	-	-

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE MICHIGAN - CONTINUED				LAKE SUPERIOR			
	WISCONSIN - CONTINUED				MICHIGAN			
	GILL NETS - CONT'D.		TOTAL		POUND NETS		TRAP NETS	
	7-1/8 - 14 INCH MESH							
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
STURGEON	-	-	-	-	100	$60	-	-
SUCKERS	-	-	176,900	$7,076	400	11	600	$21
WHITEFISH:								
COMMON	-	-	192,900	106,112	46,100	22,528	99,400	48,556
MENOMINEE	-	-	2,400	509	-	-	-	-
YELLOW PERCH	-	-	2,839,500	425,924	-	-	-	-
YELLOW PIKE	-	-	6,100	2,452	100	39	100	15
TOTAL	69,400	$1,388	16,982,500	1,311,846	308,500	37,827	100,100	48,595

SPECIES	LAKE SUPERIOR - CONTINUED					
	MICHIGAN - CONTINUED					
	FYKE AND HOOP NETS		GILL NETS			
			1-1/4 - 2 INCH MESH		2-1/8 - 3-7/8 INCH MESH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	-	-	-	-	300	$7
BURBOT	-	-	-	-	100	1
CHUBS	-	-	-	-	396,600	45,669
LAKE HERRING	-	-	800	$47	4,648,200	269,630
PIKE OR PICKEREL	-	-	(1)	2	-	-
SMELT	-	-	204,700	12,143	(1)	1
SUCKERS	(1)	$1	100	3	3,200	108
WHITEFISH:						
COMMON	-	-	-	-	100	54
MENOMINEE	-	-	200	44	9,700	2,123
YELLOW PERCH	-	-	-	-	16,800	2,982
YELLOW PIKE	-	-	-	-	(1)	2
TOTAL	(1)	1	205,800	12,239	5,075,000	320,577

SPECIES	LAKE SUPERIOR - CONTINUED							
	MICHIGAN - CONTINUED				WISCONSIN			
	GILL NETS - CONT'D.		TOTAL		POUND NETS		GILL NETS	
	4 - 7 INCH MESH						1-1/4 - 2 INCH MESH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES	(1)	(1)	300	$7	-	-	-	-
BULLHEADS	-	-	-	-	(1)	$1	-	-
BURBOT	400	$9	500	10	(1)	2	-	-
CARP	-	-	(1)	2	100	1	-	-
CHUBS	(1)	2	396,600	45,671	-	-	-	-
LAKE HERRING	4,600	270	4,664,100	270,222	(1)	2	(1)	(1)
LAKE TROUT	63,800	42,466	63,800	42,466	-	-	-	-
PIKE OR PICKEREL	100	9	100	14	(1)	1	-	-
SAUGER	(1)	15	(1)	15	-	-	-	-
SMELT	100	4	456,100	27,060	500,000	19,998	12,400	$494
STURGEON	-	-	100	60	-	-	-	-
SUCKERS	14,700	498	19,000	642	14,900	597	-	-
WHITEFISH:								
COMMON	202,800	99,144	348,400	170,282	21,500	11,808	-	-
MENOMINEE	100	16	10,000	2,183	-	-	-	-
YELLOW PERCH	(1)	1	16,800	2,983	-	-	-	-
YELLOW PIKE	100	41	300	97	(1)	2	-	-
TOTAL	286,700	142,475	5,976,100	561,714	536,500	32,412	12,400	494

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE SUPERIOR - CONTINUED							
	WISCONSIN - CONTINUED							
	GILL NETS - CONTINUED				DIP NETS		TOTAL	
	2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES.	(1)	$1	-	-	-	-	(1)	$1
BULLHEADS	-	-	-	-	-	-	(1)	1
BURBOT.	1,500	76	5,000	$249	-	-	6,500	327
CARP.	-	-	600	13	-	-	700	14
CHUBS	342,200	74,404	500	17	-	-	342,700	74,421
LAKE HERRING.	537,900	21,517	1,900	74	-	-	539,800	21,593
LAKE TROUT.	100	68	37,700	24,501	-	-	37,800	24,569
PIKE OR PICKEREL. . . .	-	-	-	-	-	-	(1)	1
SMELT	(1)	1	1,800	72	5,200	$210	519,400	20,775
SUCKERS	3,700	145	7,500	301	-	-	26,100	1,043
WHITEFISH:								
COMMON.	200	100	55,400	30,492	-	-	77,100	42,400
MENOMINEE	36,900	7,741	200	51	-	-	37,100	7,792
YELLOW PERCH.	100	16	-	-	-	-	100	16
YELLOW PIKE	-	-	-	-	-	-	(1)	2
TOTAL.	922,600	104,069	110,600	55,770	5,200	210	1,587,300	192,955

SPECIES	LAKE SUPERIOR - CONTINUED					
	MINNESOTA					
	POUND NETS		GILL NETS, 2-1/8 - 3-7/8 INCH MESH		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BURBOT.	-	-	(1)	(1)	(1)	(1)
CHUBS	-	-	50,100	$5,000	50,100	$5,000
LAKE HERRING.	-	-	982,600	68,700	982,600	68,700
SMELT	1,044,700	$20,900	-	-	1,044,700	20,900
SUCKERS	-	-	200	8	200	8
WHITEFISH:						
COMMON.	-	-	(1)	1	(1)	1
MENOMINEE	-	-	1,100	150	1,100	150
TOTAL.	1,044,700	20,900	1,034,000	73,859	2,078,700	94,759

SPECIES	LAKE ST. CLAIR		LAKE OF THE WOODS					
	MICHIGAN		MINNESOTA					
	HAUL SEINES		OTTER TRAWLS		POUND NETS		TRAP NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BULLHEADS	-	-	(1)	(1)	-	-	200	$11
BURBOT.	-	-	57,700	$3,456	200	$18	108,000	6,467
CARP.	8,300	$331	-	-	-	-	-	-
MOONEYE OR GOLDEYE. . .	-	-	-	-	-	-	100	1
PIKE OR PICKEREL. . . .	-	-	-	-	1,900	74	12,500	491
SAUGER.	-	-	26,500	2,245	200	16	15,100	1,275
SUCKERS	-	-	10,200	204	700	13	1,300	27
TULLIBEE.	-	-	863,500	25,902	(1)	1	309,600	9,287
WHITEFISH, COMMON . . .	-	-	(1)	1	-	-	(1)	1
YELLOW PERCH.	-	-	5,100	400	100	6	3,200	248
YELLOW PIKE	-	-	5,600	1,113	900	178	28,700	5,751
TOTAL.	8,300	331	968,600	33,321	4,000	306	478,700	23,559

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE OF THE WOODS - CONTINUED					
	MINNESOTA - CONTINUED					
	FYKE AND HOOP NETS		GILL NETS, 4 - 7 INCH MESH		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	-	-	(1)	(1)	(1)	(1)
BULLHEADS	100	$3	1,400	$62	1,700	$76
BURBOT.	-	-	22,700	1,359	188,600	11,300
MOONEYE OR GOLDEYE. . .	-	-	(1)	1	100	2
PIKE OR PICKEREL. . . .	(1)	1	61,700	2,434	76,100	3,000
QUILLBACK	-	-	(1)	(1)	(1)	(1)
SAUGER.	(1)	4	26,700	2,260	68,500	5,800
SUCKERS	(1)	(1)	219,100	4,376	231,300	4,620
TULLIBEE.	-	-	1,030,400	30,910	2,203,500	66,100
WHITEFISH, COMMON . . .	-	-	100	18	100	20
YELLOW PERCH.	(1)	1	3,200	245	11,600	900
YELLOW PIKE	100	14	181,700	36,344	217,000	43,400
TOTAL.	200	23	1,547,000	78,009	2,998,500	135,218

SPECIES	NAMAKAN LAKE		RAINY LAKE					
	MINNESOTA		MINNESOTA					
	GILL NETS, 4 - 7 INCH MESH		POUND NETS		GILL NETS, 4 - 7 INCH MESH		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BURBOT.	4,100	$124	7,700	$231	12,700	$381	20,400	$612
PIKE OR PICKEREL. . . .	-	-	-	-	5,900	296	5,900	296
SUCKERS	8,000	241	300	8	21,800	661	22,100	669
TULLIBEE.	7,500	224	(1)	1	12,200	365	12,200	366
WHITEFISH, COMMON . . .	11,000	2,609	-	-	25,100	5,775	25,100	5,775
YELLOW PERCH.	-	-	(1)	1	(1)	3	(1)	4
YELLOW PIKE	-	-	-	-	5,500	1,521	5,500	1,521
TOTAL.	30,600	3,198	8,000	241	83,200	9,002	91,200	9,243

1/ LESS THAN 50 POUNDS OR 50 CENTS.

SECTION 9 - MISSISSIPPI RIVER FISHERIES

A complete survey of the Mississippi River and its tributaries was made in 1964. The commercial catch of fish and shellfish was 77.1 million pounds valued at $7.4 million to the fishermen. Compared with 1963, this was a decline of 2.7 million pounds but the value remained the same as in the previous year. The reduced volume was largely the result of a decline in the take of mussel shells, principally for export to Japan. The more important species remained practically unchanged from the previous year.

Buffalofish, carp, catfish and bullheads, and sheepshead were the most important food species taken, accounting for 93 percent of the fish catch. Mussel shells were the leading shellfish item in both volume and value, followed by crawfish.

Wisconsin was the leading State in volume with 12.5 million pounds, followed by Minnesota, 11.1; Tennessee, 9.8; and Louisiana, 7.4 million pounds.

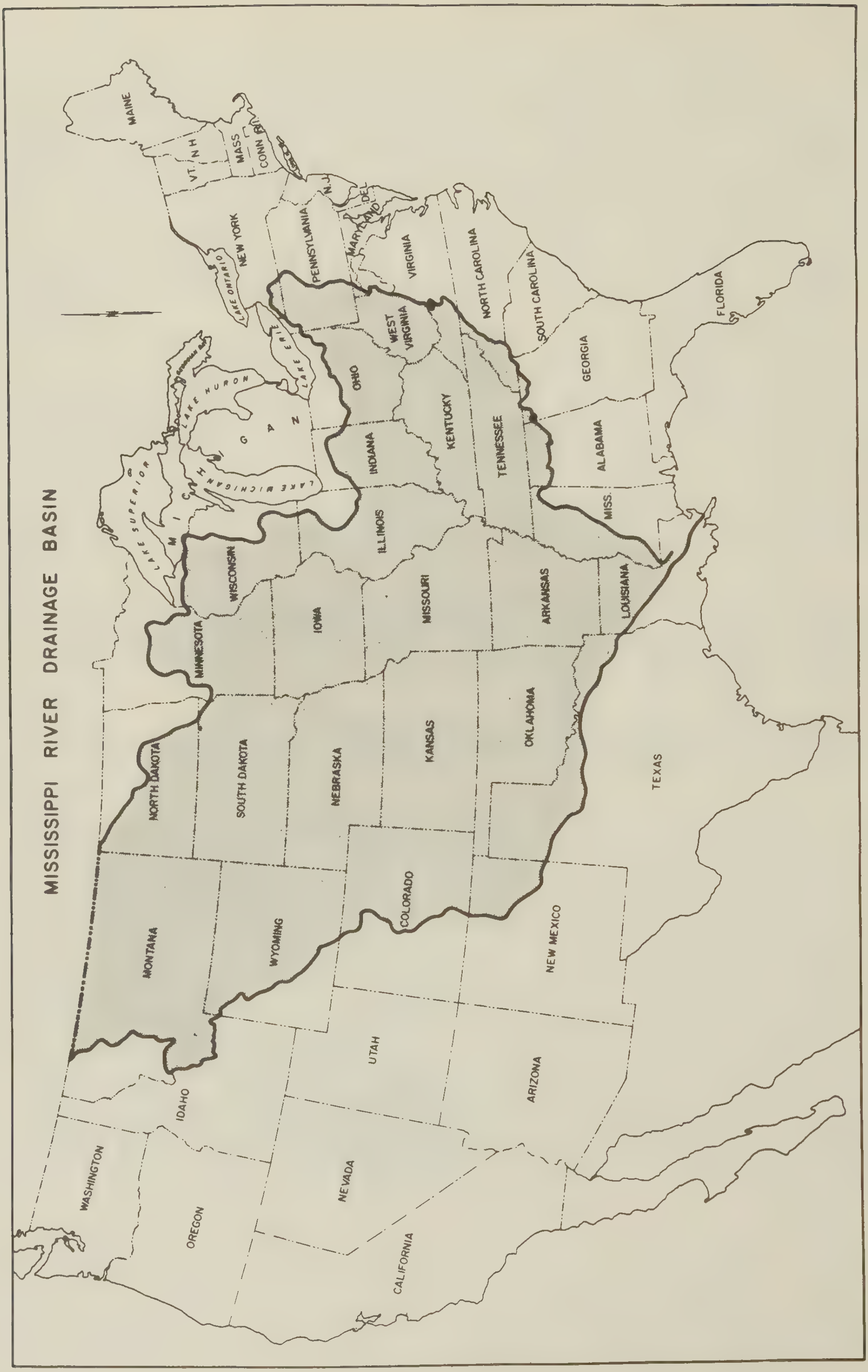
Tennessee was first in value with $1,148,000, followed by Louisiana with $1,099,000. The catch was made by 9,457 fishermen using 4 vessels, 7,929 motor boats, and 248 other boats. Compared with 1963, there were 170 more fishermen, but 130 less motor boats.

There was increased evidence of pollution in the major river systems resulting in increased fish kills. Producers of choice catfish were plagued by short supplies and were turning to pond-reared channel catfish for a constant source of supply. Drainage, reclamation, and changes in the river systems continued to add to the problems of the region.

In 1964, for the first time, the Mississippi River Section includes data from river systems not connected with or draining into the Mississippi River as its tributaries. For example, salmon are reported in the Section. These were taken from waters draining into the Pacific Ocean. Catches are also reported from river systems draining north into Hudson Bay and south into the Gulf of Mexico.

Condensed summary data on the operating units and catch by States of the Mississippi River fisheries appearing on the following pages have been previously published in Current Fishery Statistics No. 4106.

The following organizations assisted in collecting the data appearing in this section: Alabama Department of Conservation, Division of Game and Fish; Arizona Game and Fish Department; Arkansas Game and Fish Commission, Division of Fisheries; Colorado Game, Fish and Parks Department; Idaho Fish and Game Department; Illinois Department of Conservation, Division of Fisheries; Indiana Department of Conservation, Division of Fish and Game, Section of Fish Management; Iowa State Conservation Commission, Division of Fish and Game; Kansas Forestry, Fish and Game Commission, Fisheries Division; Kentucky Department of Fish and Wildlife Resources; Louisiana Wild Life and Fisheries Commission; Minnesota Department of Conservation, Division of Game and Fish, Section of Fisheries; Mississippi Game and Fish Commission; Missouri Conservation Commission; Montana Department of Fish and Game, Fisheries Management; Nebraska Game, Forestation and Parks Commission, Fishery Division; New Mexico Department of Game and Fish; North Dakota Game and Fish Department, Fisheries Division; Oklahoma Department of Wildlife Conservation, Division of Fisheries; South Dakota Department of Game, Fish and Parks; Tennessee Game and Fish Commission, Fish Management Division; Texas Game and Fish Commission, Inland Fisheries; Utah State Fish and Game Department; Wisconsin Conservation Department, Fish Management Division; Wyoming Game and Fish Commission; and the Tennessee Valley Authority, Fish and Game Branch.



MISSISSIPPI RIVER DRAINAGE BASIN

MAINE
VT.
N H
MASS
CONN
R.I.
NEW YORK
LAKE ONTARIO
PENNSYLVANIA
N.J.
DEL
MARYLAND
VIRGINIA
WEST VIRGINIA
NORTH CAROLINA
SOUTH CAROLINA
GEORGIA
FLORIDA
LAKE ERIE
LAKE HURON
MICHIGAN
LAKE MICHIGAN
LAKE SUPERIOR
OHIO
INDIANA
KENTUCKY
TENNESSEE
ALABAMA
MISS.
ILLINOIS
WISCONSIN
IOWA
MISSOURI
ARKANSAS
LOUISIANA
MINNESOTA
NORTH DAKOTA
SOUTH DAKOTA
NEBRASKA
KANSAS
OKLAHOMA
TEXAS
MONTANA
WYOMING
COLORADO
NEW MEXICO
UTAH
ARIZONA
IDAHO
WASHINGTON
OREGON
NEVADA
CALIFORNIA

MISSISSIPPI RIVER FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

STATE	FISH		SHELLFISH, ETC.		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALABAMA	3,757	752	822	77	4,579	829
ARIZONA	12	2	-	-	12	2
ARKANSAS	3,896	477	135	18	4,031	495
COLORADO	168	27	-	-	168	27
IDAHO	1,231	66	-	-	1,231	66
ILLINOIS	5,411	572	1,365	61	6,776	633
INDIANA	40	6	1,800	124	1,840	130
IOWA	3,737	300	(1)	(1)	3,737	300
KANSAS	39	11	-	-	39	11
KENTUCKY	1,151	196	265	13	1,416	209
LOUISIANA	5,272	697	2,172	402	7,444	1,099
MINNESOTA	11,144	723	3	(1)	11,147	723
MISSISSIPPI	2,796	324	(1)	2	2,796	326
MISSOURI	353	46	-	-	353	46
MONTANA	237	16	-	-	237	16
NEBRASKA	281	33	-	-	281	33
NEW MEXICO	59	16	-	-	59	16
NORTH DAKOTA	488	33	-	-	488	33
OKLAHOMA	699	87	-	-	699	87
SOUTH DAKOTA	3,208	188	-	-	3,208	188
TENNESSEE	6,414	923	3,352	225	9,766	1,148
TEXAS	1,048	123	3	(1)	1,051	123
UTAH	2,852	87	108	54	2,960	141
WISCONSIN	12,340	684	180	6	12,520	690
WYOMING	293	12	-	-	293	12
TOTAL	66,926	6,401	10,205	982	77,131	7,383

1/ LESS THAN 500 POUNDS OR $500.

SUMMARY OF OPERATING UNITS, 1964

ITEM	ALABAMA	ARKANSAS	ILLINOIS	INDIANA	IOWA	KANSAS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:						
REGULAR	233	289	139	-	127	-
CASUAL	301	780	450	186	398	13
TOTAL	534	1,069	589	186	525	13
BOATS:						
MOTOR	534	882	467	69	522	13
OTHER	-	28	28	-	24	-
GEAR:						
HAUL SEINES, COMMON	-	29	32	-	30	1
LENGTH, YARDS	-	8,750	7,450	-	7,666	60
WEIRS	-	-	-	-	12	-
FYKE AND HOOP NETS	110	5,875	4,826	180	3,574	52
POTS AND TRAPS:						
FISH	-	-	-	-	4,173	-
WIRE BASKETS	-	-	2,548	-	-	-
GILL NETS, ANCHOR, SET OR STAKE	450	903	74	-	495	-
SQUARE YARDS	119,700	179,395	13,038	-	34,666	-
TRAMMEL NETS	60	502	341	-	252	14
SQUARE YARDS	15,960	111,115	66,275	-	50,000	1,500
LINES:						
LONG OR SET WITH HOOKS	3,475	3,520	768	78	1,791	100
HOOKS	347,500	179,920	71,200	4,020	179,100	836
SNAG	925	759	-	-	-	-
HOOKS	462,000	312,400	-	-	-	-
DIP NETS, COMMON	-	45	-	-	-	-
CROWFOOT BARS	252	10	77	33	-	-

ITEM	KENTUCKY	LOUISIANA	MINNESOTA	MISSISSIPPI	MISSOURI
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	257	611	294	212	28
CASUAL	395	870	340	407	242
TOTAL	652	1,481	634	619	270
BOATS:					
MOTOR	368	1,471	277	549	266
OTHER	-	-	55	21	1
GEAR:					
HAUL SEINES, COMMON	-	3	39	31	3
LENGTH, YARDS	-	2,200	27,131	10,400	700
WEIRS	-	-	40	-	-
POUND NETS	-	-	17	-	-
FYKE AND HOOP NETS	2,883	26,018	1,767	3,135	1,066
POTS AND TRAPS:					
CRAWFISH	-	20,980	-	-	-
SHRIMP	-	560	-	-	-
GILL NETS, ANCHOR, SET OR STAKE	42	2,165	238	881	-
SQUARE YARDS	8,800	587,864	342,400	339,280	-

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1964 - Continued

ITEM	KENTUCKY	LOUISIANA	MINNESOTA	MISSISSIPPI	MISSOURI
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
GEAR - CONTINUED:					
TRAMMEL NETS	130	1,321	-	155	179
SQUARE YARDS	24,724	232,424	-	51,090	30,730
LINES:					
HAND	-	97	-	-	-
HOOKS	-	97	-	-	-
LONG OR SET WITH HOOKS	758	2,111	44	1,370	173
HOOKS	55,838	314,525	10,188	346,200	16,724
SNAG	155	-	-	345	-
HOOKS	51,124	-	-	462,825	-
DIP NETS:					
COMMON	-	182	-	25	-
DROP	-	315	-	-	-
CROWFOOT BARS	66	-	-	-	-
GRABS, FROG	-	198	-	-	-

ITEM	MONTANA	NEBRASKA	NORTH DAKOTA	OKLAHOMA	SOUTH DAKOTA
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	5	30	8	76	33
CASUAL	6	106	17	58	32
TOTAL	11	136	25	134	65
BOATS:					
MOTOR	8	111	5	134	20
OTHER	2	25	-	-	10
GEAR:					
HAUL SEINES, COMMON	2	25	1	-	7
LENGTH, YARDS	600	2,635	1,000	-	5,067
FYKE AND HOOP NETS	18	856	70	-	173
POTS AND TRAPS, FISH	-	240	-	-	-
GILL NETS, ANCHOR, SET OR STAKE	10	-	12	472	33
SQUARE YARDS	16,660	-	1,700	191,192	13,200
TRAMMEL NETS	-	158	-	70	-
SQUARE YARDS	-	23,867	-	18,550	-

ITEM	TENNESSEE	TEXAS	WISCONSIN	WYOMING	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS	-	-	12	-	12
ON BOATS AND SHORE:					
REGULAR	544	148	211	-	3,245
CASUAL	723	348	526	2	6,200
TOTAL	1,267	496	749	2	9,457
VESSELS, MOTOR	-	-	4	-	4
GROSS TONNAGE	-	-	55	-	55
BOATS:					
MOTOR	1,263	428	540	2	7,929
OTHER	-	-	54	-	248
GEAR:					
HAUL SEINES, COMMON	-	-	49	1	253
LENGTH, YARDS	-	-	23,837	100	97,596
OTTER TRAWLS, FISH	-	-	6	-	6
YARDS AT MOUTH	-	-	95	-	95
WEIRS	-	-	3	-	55
POUND NETS	-	-	-	-	17
TRAP NETS	-	-	164	-	164
FYKE AND HOOP NETS	4,521	788	1,523	-	57,435
POTS AND TRAPS:					
CRAWFISH	-	-	-	-	20,980
FISH	-	-	-	-	4,413
SHRIMP	-	-	-	-	560
WIRE BASKETS	-	-	-	-	2,548
GILL NETS, ANCHOR, SET OR STAKE	238	970	117	-	7,100
SQUARE YARDS	56,865	207,690	48,520	-	2,160,970
TRAMMEL NETS	770	66	7	-	4,025
SQUARE YARDS	204,659	13,200	1,100	-	845,194
LINES:					
HAND	-	-	-	-	97
HOOKS	-	-	-	-	97
LONG OR SET WITH HOOKS	4,824	1,182	399	-	20,593
HOOKS	441,740	88,650	113,945	-	2,170,386
SNAG	1,529	-	-	-	3,713
HOOKS	723,800	-	-	-	2,012,149
DIP NETS:					
COMMON	3	-	2	-	257
DROP	-	-	-	-	315
CROWFOOT BARS	523	-	26	-	987
GRABS, FROG	-	-	-	-	198

NOTE:--DATA ARE NOT AVAILABLE ON OPERATING UNITS IN ARIZONA, COLORADO, IDAHO, NEW MEXICO, AND UTAH.

CATCH BY STATES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	ALABAMA		ARIZONA		ARKANSAS	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN.	-	-	-	-	6	(1)
BUFFALOFISH	614	74	12	2	2,620	306
CARP.	362	18	-	-	445	18
CATFISH AND BULLHEADS . . .	2,480	620	-	-	424	127
GARFISH	-	-	-	-	197	10
PADDLEFISH.	192	29	-	-	35	3
QUILLBACK	5	1	-	-	18	1
SHEEPSHEAD.	104	10	-	-	132	11
STURGEON, SHOVELNOSE. . . .	-	-	-	-	8	1
SUCKERS	-	-	-	-	11	(1)
TOTAL FISH.	3,757	752	12	2	3,896	477
SHELLFISH, ETC.						
MUSSEL SHELLS	822	76	-	-	76	2
PEARLS AND SLUGS.	-	1	-	-	-	-
TURTLES:						
BABY.	-	-	-	-	3	13
SLIDER.	-	-	-	-	31	1
SNAPPER	-	-	-	-	25	2
TOTAL SHELLFISH, ETC.	822	77	-	-	135	18
GRAND TOTAL	4,579	829	12	2	4,031	495

SPECIES	COLORADO		IDAHO		ILLINOIS	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN.	-	-	-	-	5	(1)
BUFFALOFISH	-	-	-	-	1,690	166
CARP.	160	5	730	18	1,941	93
CATFISH AND BULLHEADS . . .	-	-	-	-	1,051	262
CRAPPIE	-	-	-	-	(1)	(1)
EELS, COMMON.	-	-	-	-	1	(1)
GARFISH	-	-	-	-	15	1
MINNOWS	2	19	-	-	(1)	(1)
MOONEYE	-	-	-	-	-	-
PADDLEFISH.	-	-	-	-	77	7
QUILLBACK	-	-	-	-	85	3
SALMON, RED OR SOCKEYE. . .	-	-	74	37	-	-
SHEEPSHEAD.	-	-	-	-	523	37
STURGEON, SHOVELNOSE. . . .	-	-	-	-	18	3
SUCKERS	-	-	427	11	5	(1)
UNCLASSIFIED, FOR FOOD. . .	6	3	-	-	-	-
TOTAL FISH.	168	27	1,231	66	5,411	572
SHELLFISH, ETC.						
MUSSEL SHELLS	-	-	-	-	1,358	59
PEARLS AND SLUGS.	-	-	-	-	-	1
TURTLES, SNAPPER.	-	-	-	-	7	1
TOTAL SHELLFISH, ETC.	-	-	-	-	1,365	61
GRAND TOTAL	168	27	1,231	66	6,776	633

SPECIES	INDIANA		IOWA		KANSAS	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN.	-	-	1	(1)	-	-
BUFFALOFISH	21	3	886	76	5	1
CARP.	1	(1)	1,510	40	28	7
CATFISH AND BULLHEADS . . .	13	3	741	152	6	3
GARFISH	-	-	8	(1)	-	-
PADDLEFISH.	-	-	22	2	(1)	(1)
QUILLBACK	3	(1)	(1)	(1)	(1)	(1)
SHEEPSHEAD.	2	(1)	444	27	-	-
STURGEON, SHOVELNOSE. . . .	-	-	9	1	-	-
SUCKERS	-	-	116	2	(1)	(1)
TOTAL FISH.	40	6	3,737	300	39	11

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	INDIANA		IOWA		KANSAS	
SHELLFISH, ETC.	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
MUSSEL SHELLS	1,800	122	-	-	-	-
PEARLS AND SLUGS	-	2	-	-	-	-
TURTLES, SNAPPER	-	-	(1)	(1)	-	-
TOTAL SHELLFISH, ETC.	1,800	124	(1)	(1)	-	-
GRAND TOTAL	1,840	130	3,737	300	39	11

SPECIES	KENTUCKY		LOUISIANA		MINNESOTA	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN	-	-	75	3	16	(1)
BUFFALOFISH	212	25	2,463	245	780	65
BURBOT	-	-	-	-	16	(1)
CARP	258	13	147	5	6,095	152
CATFISH AND BULLHEADS	604	153	1,738	378	2,228	135
CRAPPIE	-	-	-	-	2	1
GARFISH	-	-	333	17	12	(1)
MOONEYE	-	-	-	-	12	2
PADDLEFISH	11	2	22	1	-	-
PIKE OR PICKEREL	-	-	-	-	93	13
QUILLBACK	19	1	-	-	2	(1)
SHEEPSHEAD	30	1	494	48	741	26
STURGEON, SHOVELNOSE	2	(1)	-	-	-	-
SUCKERS	15	1	-	-	41	1
TULLIBEE	-	-	-	-	(1)	(1)
WHITE BASS	-	-	-	-	57	4
WHITEFISH, COMMON	-	-	-	-	132	52
YELLOW PERCH	-	-	-	-	279	65
YELLOW PIKE	-	-	-	-	638	207
TOTAL FISH	1,151	196	5,272	697	11,144	723
SHELLFISH, ETC.						
CRAWFISH	-	-	1,987	330	-	-
SHRIMP	-	-	17	4	-	-
MUSSEL SHELLS	265	12	-	-	-	-
PEARLS AND SLUGS	-	1	-	-	-	-
TURTLES:						
BABY	-	-	8	33	-	-
SNAPPER	-	-	110	18	3	(1)
FROGS	-	-	50	17	-	-
TOTAL SHELLFISH, ETC.	265	13	2,172	402	3	(1)
GRAND TOTAL	1,416	209	7,444	1,099	11,147	723

SPECIES	MISSISSIPPI		MISSOURI		MONTANA	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN	3	(1)	-	-	-	-
BUFFALOFISH	1,772	185	141	20	121	13
CARP	421	18	128	8	110	2
CATFISH AND BULLHEADS	479	114	49	15	4	1
EELS, COMMON	-	-	(1)	(1)	-	-
GARFISH	60	3	-	-	-	-
PADDLEFISH	17	1	3	(1)	-	-
QUILLBACK	3	(1)	7	(1)	-	-
SHEEPSHEAD	41	3	19	2	1	(1)
STURGEON, SHOVELNOSE	-	-	4	1	-	-
SUCKERS	(1)	(1)	2	(1)	1	(1)
TOTAL FISH	2,796	324	353	46	237	16
SHELLFISH, ETC.						
TURTLES, BABY	(1)	2	-	-	-	-
GRAND TOTAL	2,796	326	353	46	237	16

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	NEBRASKA		NEW MEXICO		NORTH DAKOTA	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BUFFALOFISH	9	2	58	16	93	5
CARP	173	17	1	(1)	77	3
CATFISH AND BULLHEADS	41	13	-	-	309	25
PADDLEFISH	-	-	-	-	2	(1)
QUILLBACK	44	1	-	-	-	-
SHEEPSHEAD	14	(1)	-	-	-	-
STURGEON, SHOVELNOSE	(1)	(1)	-	-	-	-
SUCKERS	-	-	-	-	7	(1)
TOTAL FISH	281	33	59	16	488	33
GRAND TOTAL	281	33	59	16	488	33

SPECIES	OKLAHOMA		SOUTH DAKOTA		TENNESSEE	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN	-	-	-	-	29	1
BUFFALOFISH	398	48	1,746	157	1,700	198
CARP	157	8	1,234	19	1,479	70
CATFISH AND BULLHEADS	70	22	202	12	2,259	560
CRAPPIE	-	-	-	-	13	3
GARFISH	5	(1)	-	-	7	(1)
PADDLEFISH	13	1	-	-	426	64
QUILLBACK	5	(1)	-	-	229	13
SHEEPSHEAD	36	5	5	(1)	268	14
STURGEON, SHOVELNOSE	-	-	-	-	(1)	(1)
SUCKERS	-	-	21	(1)	3	(1)
WHITE BASS	15	3	-	-	-	-
YELLOW BASS	-	-	-	-	1	(1)
TOTAL FISH	699	87	3,208	188	6,414	923
SHELLFISH, ETC.						
MUSSEL SHELLS	-	-	-	-	3,352	216
PEARLS AND SLUGS	-	-	-	-	-	7
TURTLES, BABY	-	-	-	-	(1)	2
TOTAL SHELLFISH, ETC.	-	-	-	-	3,352	225
GRAND TOTAL	699	87	3,208	188	9,766	1,148

SPECIES	TEXAS		UTAH		WISCONSIN	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN	-	-	-	-	8	(1)
BUFFALOFISH	764	84	-	-	1,294	142
BURBOT	-	-	-	-	53	1
CARP	54	3	2,766	83	7,463	224
CATFISH AND BULLHEADS	95	28	-	-	781	161
EELS, COMMON	-	-	-	-	(1)	(1)
GARFISH	113	6	-	-	26	(1)
MOONEYE	-	-	-	-	13	(1)
QUILLBACK	2	(1)	-	-	19	(1)
SHEEPSHEAD	14	2	-	-	2,549	153
STURGEON, SHOVELNOSE	-	-	-	-	2	(1)
SUCKERS	6	(1)	86	4	132	3
TOTAL FISH	1,048	123	2,852	87	12,340	684
SHELLFISH, ETC.						
ARTEMIA (BRINE SHRIMP) EGGS	-	-	108	54	-	-
MUSSEL SHELLS	-	-	-	-	174	5
TURTLES, SNAPPER	3	(1)	-	-	6	1
TOTAL SHELLFISH, ETC.	3	(1)	108	54	180	6
GRAND TOTAL	1,051	123	2,960	141	12,520	690

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	WYOMING		TOTAL	
FISH	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN	-	-	143	4
BUFFALOFISH	-	-	17,399	1,833
BURBOT	-	-	69	1
CARP	198	6	25,938	830
CATFISH AND BULLHEADS	-	-	13,574	2,784
CRAPPIE	-	-	15	4
EELS, COMMON	-	-	1	(1)
GARFISH	-	-	776	37
MINNOWS	-	-	2	19
MOONEYE	-	-	25	2
PADDLEFISH	-	-	820	110
PIKE OR PICKEREL	-	-	93	13
QUILLBACK	-	-	441	20
SALMON, RED OR SOCKEYE	-	-	74	37
SHEEPSHEAD	95	6	5,512	345
STURGEON, SHOVELNOSE	-	-	43	6
SUCKERS	-	-	873	22
TULLIBEE	-	-	(1)	(1)
WHITE BASS	-	-	72	7
WHITEFISH, COMMON	-	-	132	52
YELLOW BASS	-	-	1	(1)
YELLOW PERCH	-	-	279	65
YELLOW PIKE	-	-	638	207
UNCLASSIFIED, FOR FOOD	-	-	6	3
TOTAL FISH	293	12	66,926	6,401
SHELLFISH, ETC.				
ARTEMIA (BRINE SHRIMP) EGGS	-	-	108	54
CRAWFISH	-	-	1,987	330
SHRIMP	-	-	17	4
MUSSEL SHELLS	-	-	7,847	492
PEARLS AND SLUGS	-	-	-	12
TURTLES:				
BABY	-	-	11	50
SLIDER	-	-	31	1
SNAPPER	-	-	154	22
FROGS	-	-	50	17
TOTAL SHELLFISH, ETC.	-	-	10,205	982
GRAND TOTAL	293	12	77,131	7,383

1/ LESS THAN 500 POUNDS OR $500.

CARP

MISSISSIPPI RIVER FISHERIES

SUMMARY OF CATCH BY MAJOR WATERS OF CERTAIN INLAND DRAINAGE AREAS, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA					
	MISSISSIPPI RIVER PROPER		ATCHAFALAYA RIVER AREA		RED RIVER AREA	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN	10	(1)	10	(1)	54	2
BUFFALOFISH	2,470	255	854	75	2,005	227
CARP	6,790	225	27	1	199	9
CATFISH AND BULLHEADS	2,341	538	1,107	226	583	152
CRAPPIE	(1)	(1)	-	-	-	-
EELS, COMMON	1	(1)	-	-	-	-
GARFISH	27	1	114	6	223	11
MOONEYE	8	(1)	-	-	-	-
PADDLEFISH	97	9	2	(1)	19	1
QUILLBACK	43	1	-	-	4	(1)
SHEEPSHEAD	1,429	92	240	24	199	20
STURGEON, SHOVELNOSE	27	5	-	-	-	-
SUCKERS	172	4	-	-	6	(1)
WHITE BASS	-	-	-	-	1	(1)
CRAWFISH	6	1	1,781	291	120	22
SHRIMP	8	2	9	2	-	-
MUSSEL SHELLS	174	5	-	-	-	-
TURTLES:						
BABY	-	-	2	8	5	22
SNAPPER	16	2	10	2	78	13
FROGS	5	2	21	7	22	7
TOTAL	13,624	1,142	4,177	642	3,518	486

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA - CONTINUED					
	ARKANSAS RIVER AREA		OHIO RIVER DRAINAGE AREA			
			OHIO RIVER PROPER		WABASH RIVER AREA	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN	3	(1)	-	-	(1)	(1)
BUFFALOFISH	1,631	183	160	19	30	3
CARP	264	11	168	8	27	2
CATFISH AND BULLHEADS	285	91	234	60	19	5
EELS, COMMON	-	-	-	-	(1)	(1)
GARFISH	56	3	-	-	2	(1)
PADDLEFISH	37	3	7	1	1	(1)
QUILLBACK	11	(1)	15	1	6	1
SHEEPSHEAD	90	8	29	2	3	1
STURGEON, SHOVELNOSE	6	1	3	(1)	3	(1)
SUCKERS	4	(1)	9	1	(1)	(1)
WHITE BASS	14	3	-	-	-	-
MUSSEL SHELLS	76	2	56	2	2,400	162
PEARLS AND SLUGS	-	-	-	-	-	3
TURTLES, SNAPPER	10	(1)	-	-	-	-
TOTAL	2,487	305	681	94	2,491	177

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA - CONTINUED					
	OHIO RIVER DRAINAGE AREA - CONTINUED					
	TENNESSEE RIVER AREA		CUMBERLAND RIVER AREA		UNCLASSIFIED	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BUFFALOFISH	1,649	190	91	13	43	5
CARP	1,351	63	133	7	31	2
CATFISH AND BULLHEADS	4,447	1,108	101	26	32	8
GARFISH	7	(1)	-	-	-	-
PADDLEFISH	614	92	2	(1)	2	(1)
QUILLBACK	229	13	5	(1)	1	(1)
SHEEPSHEAD	295	20	22	2	5	(1)
STURGEON, SHOVELNOSE	-	-	1	(1)	-	-
SUCKERS	-	-	4	(1)	7	(1)
MUSSEL SHELLS	4,224	295	90	3	97	5
PEARLS AND SLUGS	-	9	-	-	-	-
TOTAL	12,816	1,790	449	51	218	20

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF CATCH BY MAJOR WATERS OF CERTAIN INLAND DRAINAGE AREAS, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA - CONTINUED					
	ILLINOIS RIVER AREA		MISSOURI RIVER AREA		ST. CROIX RIVER AREA	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN	2	(1)	-	-	-	-
BUFFALOFISH	658	52	2,003	181	11	1
CARP	742	32	1,052	38	446	12
CATFISH AND BULLHEADS	130	30	547	55	-	-
EELS, COMMON	(1)	(1)	(1)	(1)	-	-
GARFISH	7	(1)	-	-	4	(1)
PADDLEFISH	-	-	5	1	-	-
QUILLBACK	3	(1)	4	(1)	-	-
SHEEPSHEAD	39	3	12	1	54	3
STURGEON, SHOVELNOSE	-	-	1	(1)	-	-
SUCKERS	-	-	27	1	1	(1)
MUSSEL SHELLS	730	18	-	-	-	-
TURTLES, SNAPPER	1	(1)	-	-	-	-
TOTAL	2,312	135	3,651	277	516	16

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA - CONTINUED		NORTHERN DRAINAGE AREA			
	UNCLASSIFIED		RED RIVER OF THE NORTH		LAKE WINNEBAGO	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN	60	2	4	(1)	(1)	(1)
BUFFALOFISH	5,248	558	16	1	-	-
BURBOT	42	1	2	(1)	25	(1)
CARP	10,116	285	1,008	30	50	2
CATFISH AND BULLHEADS	3,101	438	647	47	-	-
CRAPPIE	13	3	2	1	-	-
GARFISH	240	11	-	-	(1)	(1)
MINNOWS	2	19	-	-	-	-
MOONEYE	5	(1)	12	2	(1)	(1)
PADDLEFISH	34	3	-	-	-	-
PIKE OR PICKEREL	-	-	93	13	-	-
QUILLBACK	118	4	-	-	-	-
SHEEPSHEAD	968	46	171	6	1,952	117
STURGEON, SHOVELNOSE	2	(1)	-	-	-	-
SUCKERS	115	2	11	(1)	(1)	(1)
TULLIBEE	(1)	(1)	-	-	-	-
WHITE BASS	57	4	-	-	-	-
WHITEFISH, COMMON	-	-	124	49	-	-
YELLOW BASS	1	(1)	-	-	-	-
YELLOW PERCH	38	9	241	56	-	-
YELLOW PIKE	-	-	638	207	-	-
UNCLASSIFIED, FOR FOOD	6	3	-	-	-	-
CRAWFISH	80	16	-	-	-	-
TURTLES:						
BABY	4	20	-	-	-	-
SLIDER	31	1	-	-	-	-
SNAPPER	38	5	(1)	(1)	-	-
FROGS	2	1	-	-	-	-
TOTAL	20,321	1,431	2,969	412	2,027	119

SPECIES	NORTHERN DRAINAGE AREA - CONTINUED		GULF OF MEXICO DRAINAGE AREA		PACIFIC DRAINAGE AREA (INCLUDING GREAT BASIN)	
	UNCLASSIFIED					
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BUFFALOFISH	-	-	518	67	12	3
BURBOT	(1)	(1)	-	-	-	-
CARP	-	-	38	2	3,496	101
GARFISH	-	-	96	5	-	-
QUILLBACK	-	-	2	(1)	-	-
SALMON, RED OR SOCKEYE	-	-	-	-	74	37
SHEEPSHEAD	-	-	4	(1)	-	-
SUCKERS	1	(1)	2	(1)	514	14
WHITEFISH, COMMON	8	3	-	-	-	-
ARTEMIA (BRINE SHRIMP) EGGS	-	-	-	-	108	54
TURTLES, SNAPPER	-	-	1	(1)	-	-
TOTAL	9	3	661	74	4,204	209

1/ LESS THAN 500 POUNDS OR $500.

MANUFACTURED FISHERY PRODUCTS, 1964

ITEM			QUANTITY	VALUE
BUFFALOFISH, SMOKED	IOWA	POUNDS	(1)	(1)
CARP:				
FILLETS, FRESH AND FROZEN	IOWA, ILLINOIS, WISCONSIN	DO	1,570,000	$325,450
SMOKED	IOWA, ILLINOIS, WISCONSIN, MINNESOTA	DO	168,940	50,304
CATFISH:				
FILLETS:				
FROZEN	ILLINOIS	DO	(1)	(1)
BREADED, FROZEN	ILLINOIS	DO	(1)	(1)
SMOKED	IOWA	DO	(1)	(1)
COD:				
SMOKED	NORTH DAKOTA	DO	(1)	(1)
LUTEFISK	MINNESOTA	DO	(1)	(1)
FLOUNDER SPECIALTIES, FROZEN (STUFFED)	TEXAS	DO	(1)	(1)
HALIBUT, SMOKED	IOWA, NORTH DAKOTA, NEBRASKA	DO	27,300	21,245
HERRING, PICKLED	MINNESOTA	DO	1,387,000	421,542
LAKE TROUT, SMOKED	MINNESOTA	DO	(1)	(1)
PADDLEFISH, SMOKED	IOWA, ILLINOIS	DO	7,840	5,120
SALMON, SMOKED	IOWA, NORTH DAKOTA, NEBRASKA	DO	50,800	53,675
STURGEON, SMOKED	IOWA, ILLINOIS	DO	37,370	34,545
WHITEFISH, SMOKED	MINNESOTA, NORTH DAKOTA	DO	7,500	3,757
WHITING, SMOKED	IOWA, NEBRASKA	DO	97,500	39,825
CRAB SPECIALTIES, FROZEN (DEVILED)	TEXAS	DO	(1)	(1)
CRAWFISH, COOKED MEAT, FRESH	LOUISIANA	DO	(1)	(1)
SHRIMP, FROZEN:				
RAW HEADLESS	TEXAS	DO	(1)	(1)
PEELED AND DEVEINED:				
RAW	TEXAS, TENNESSEE	DO	(1)	(1)
COOKED	TEXAS	DO	(1)	(1)
BREADED, RAW	TEXAS, TENNESSEE, OKLAHOMA, ARIZONA	DO	5,968,485	3,695,548
SPECIALTIES (STUFFED)	TEXAS	DO	(1)	(1)
OYSTERS, FROZEN:				
BREADED	TENNESSEE	DO	(1)	(1)
SPECIALTIES (STUFFED)	TEXAS	DO	(1)	(1)
SCALLOPS, BREADED, FROZEN	TENNESSEE	DO	(1)	(1)
TURTLE:				
MEAT, FRESH	ILLINOIS	DO	(1)	(1)
SOUP, CANNED	OHIO	STANDARD CASES	(1)	(1)
MUSSEL SHELL:				
BUTTONS	IOWA	GROSS	223,300	242,356
LIME AND CHIPS	IOWA, ILLINOIS	TONS	1,473	49,677
UNCLASSIFIED, PACKAGED FROZEN:				
STICKS	TENNESSEE, ARIZONA, MISSOURI	POUNDS	6,758,172	2,731,296
PORTIONS	TENNESSEE, OKLAHOMA, ARIZONA, MISSOURI, KENTUCKY, TEXAS	DO	5,115,052	1,798,476
FISH AND SHELLFISH	ILLINOIS, TEXAS, TENNESSEE, LOUISIANA	DO	586,853	506,516
CURED	IOWA, NORTH DAKOTA, MINNESOTA	DO	816,810	222,514
CANNED (ANIMAL FOOD AND TURTLE SOUP)	OHIO, KANSAS, NEBRASKA	STANDARD CASES	71,132	267,254
TOTAL		-	-	10,469,100

1/ INCLUDED IN UNCLASSIFIED.

NOTE:--SOME OF THE ABOVE PRODUCTS MAY HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE CATCH WITHIN THE STATE. CERTAIN ITEMS MAY BE SHOWN IN AN INTERMEDIATE AND ALSO IN A MORE ADVANCED STAGE OF PROCESSING.

VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1964

(THOUSANDS OF DOLLARS)

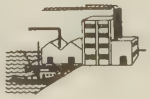
STATE	VALUE
IOWA	752
MINNESOTA	637
WISCONSIN	26
ILLINOIS	108
NORTH DAKOTA, TEXAS, AND NEBRASKA	3,346
LOUISIANA, TENNESSEE, AND OKLAHOMA	237
ARIZONA, OHIO, MISSOURI, KENTUCKY, AND KANSAS	5,363
TOTAL	10,469

WHOLESALING AND MANUFACTURING, 1964

ITEM	ALABAMA	ARKANSAS	ILLINOIS	INDIANA	IOWA	KANSAS	KENTUCKY
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING:							
ESTABLISHMENTS	14	45	52	12	33	5	21
PERSONS ENGAGED:							
AVERAGE FOR SEASON	81	68	158	93	402	61	126
AVERAGE FOR YEAR	77	68	140	92	334	59	126

ITEM	LOUISIANA	MINNESOTA	MISSISSIPPI	MISSOURI	NEBRASKA	NORTH DAKOTA	OHIO
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING:							
ESTABLISHMENTS	25	16	22	36	5	2	1
PERSONS ENGAGED:							
AVERAGE FOR SEASON	100	151	37	254	117	20	9
AVERAGE FOR YEAR	80	110	37	234	97	16	2

ITEM	OKLAHOMA	SOUTH DAKOTA	TENNESSEE	TEXAS	WISCONSIN	ARIZONA	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING:							
ESTABLISHMENTS	12	4	35	32	29	1	402
PERSONS ENGAGED:							
AVERAGE FOR SEASON	66	13	103	523	227	50	2,659
AVERAGE FOR YEAR	66	12	103	457	209	40	2,359



ALABAMA

OPERATING UNITS BY GEAR, 1964

ITEM	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR SET OR STAKE	TRAMMEL NETS	LINES: LONG OR SET WITH HOOKS	LINES: SNAG	CROWFOOT BARS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:							
REGULAR	15	40	20	160	85	50	233
CASUAL	20	15	10	210	90	76	301
TOTAL	35	55	30	370	175	126	534
BOATS, MOTOR	35	55	30	370	175	126	534
GEAR:							
NUMBER	110	450	60	3,475	925	252	-
SQUARE YARDS	-	119,700	15,960	-	-	-	-
HOOKS	-	-	-	347,500	462,000	-	-

ALABAMA - CATCH BY GEAR, 1964

SPECIES	FYKE AND HOOP NETS		GILL NETS, ANCHOR SET OR STAKE		TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	15,000	$1,800	449,900	$53,988	125,000	$15,000
CARP	7,500	375	220,000	11,000	118,000	5,900
CATFISH AND BULLHEADS	27,500	6,875	45,000	11,250	22,500	5,625
PADDLEFISH	2,500	375	27,500	4,125	21,000	3,150
QUILLBACK	-	-	4,900	588	-	-
SHEEPSHEAD	9,000	900	58,200	5,820	18,000	1,800
TOTAL	61,500	10,325	805,500	86,771	304,500	31,475

SPECIES	LINES: LONG OR SET WITH HOOKS		LINES: SNAG		CROWFOOT BARS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	16,500	$1,980	7,500	$900	-	-
CARP	10,000	500	6,000	300	-	-
CATFISH AND BULLHEADS	1,755,500	438,875	630,000	157,500	-	-
PADDLEFISH	1,000	150	140,000	21,000	-	-
SHEEPSHEAD	15,000	1,500	4,000	400	-	-
MUSSEL SHELLS	-	-	-	-	822,000	$75,565
PEARLS AND SLUGS	-	-	-	-	-	1,538
TOTAL	1,798,000	443,005	787,500	180,100	822,000	77,103

NOTE:--THE COMMERCIAL FISHERIES WERE CONFINED TO THE TENNESSEE RIVER DRAINAGE AREA.

ARIZONA

THE COMMERCIAL FISHERIES OF ARIZONA WERE CONFINED TO THE PACIFIC DRAINAGE AREA. THE CATCH CONSISTED OF 12,200 POUNDS OF BUFFALOFISH, VALUED AT $2,430.

ARKANSAS

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS	LINES
					LONG OR SET WITH HOOKS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	41	170	139	125	165
CASUAL	32	352	144	106	488
TOTAL	73	522	283	231	653
BOATS:					
MOTOR	39	474	261	205	615
OTHER	15	2	-	1	-
GEAR:					
NUMBER	29	5,875	903	502	3,520
LENGTH, YARDS	8,750	-	-	-	-
SQUARE YARDS	-	-	179,395	111,115	-
HOOKS	-	-	-	-	179,920

ITEM	LINES - CONTINUED	DIP NETS, COMMON	CROWFOOT BARS	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	SNAG				
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	63	15	-	-	289
CASUAL	85	30	10	71	780
TOTAL	148	45	10	71	1,069
BOATS:					
MOTOR	138	30	10	-	882
OTHER	1	5	-	6	28
GEAR:					
NUMBER	759	45	10	-	-
HOOKS	312,400	-	-	-	-

ARKANSAS - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS		GILL NETS, ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	-	-	2,700	$114	-	-
BUFFALOFISH	248,800	$27,902	663,200	78,771	740,700	$86,467
CARP	65,600	2,559	151,600	6,330	113,300	4,210
CATFISH AND BULLHEADS	2,600	789	60,800	18,851	10,800	3,163
GARFISH	33,000	1,644	24,100	1,202	81,800	4,083
PADDLEFISH	3,000	190	3,600	304	6,300	544
QUILLBACK	1,300	43	13,000	453	1,500	52
SHEEPSHEAD	4,400	365	52,500	4,545	23,400	1,956
STURGEON, SHOVELNOSE	-	-	4,900	515	-	-
SUCKERS	500	21	9,600	524	500	21
TURTLES:						
SLIDER	2,500	88	15,000	525	1,500	52
SNAPPER	200	20	16,100	1,110	1,000	100
TOTAL	361,900	33,621	1,017,100	113,244	980,800	100,648

SPECIES	TRAMMEL NETS		LINES			
			LONG OR SET WITH HOOKS		SNAG	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	-	-	2,900	$122	-	-
BUFFALOFISH	946,500	$110,173	15,000	1,867	5,900	$705
CARP	98,000	3,837	9,500	424	7,500	337
CATFISH AND BULLHEADS	28,400	8,891	273,500	80,549	47,800	14,555

(CONTINUED ON NEXT PAGE)

ARKANSAS - CATCH BY GEAR, 1964 - Continued

SPECIES	TRAMMEL NETS		LINES			
			LONG OR SET WITH HOOKS		SNAG	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
GARFISH	35,300	$1,749	21,400	$1,065	1,500	$74
PADDLEFISH	5,200	417	-	-	16,500	1,397
QUILLBACK	2,200	80	-	-	-	-
SHEEPSHEAD	22,100	1,952	25,600	2,127	4,300	385
STURGEON, SHOVELNOSE	800	80	2,100	215	-	-
SUCKERS	700	29	-	-	-	-
TURTLES:						
SLIDER	2,000	70	-	-	5,000	175
SNAPPER	500	50	2,400	240	4,900	490
TOTAL	1,141,700	127,328	352,400	86,609	93,400	18,118

SPECIES	DIP NETS		CROWFOOT BARS		BY HAND	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
MUSSEL SHELLS	-	-	24,000	$960	52,000	$910
TURTLES:						
BABY	1,900	$9,500	-	-	800	4,000
SLIDER	-	-	-	-	5,000	175
TOTAL	1,900	9,500	24,000	960	57,800	5,085

ARKANSAS - CATCH BY WATERS, 1964

SPECIES	RED RIVER AREA		ARKANSAS RIVER AREA		MISSISSIPPI RIVER AREA, UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	900	$46	2,600	$107	2,100	$83
BUFFALOFISH	226,500	30,868	1,458,600	162,103	935,000	112,914
CARP	43,800	2,245	174,100	6,200	227,600	9,252
CATFISH AND BULLHEADS	40,300	12,365	225,800	71,843	157,800	42,590
GARFISH	56,600	2,830	53,500	2,637	87,000	4,350
PADDLEFISH	3,300	335	23,400	1,731	7,900	786
QUILLBACK	-	-	10,400	400	7,600	228
SHEEPSHEAD	21,200	1,770	61,400	5,299	49,700	4,261
STURGEON, SHOVELNOSE	-	-	6,100	640	1,700	170
SUCKERS	2,200	189	4,200	176	4,900	230
MUSSEL SHELLS	-	-	76,000	1,870	-	-
TURTLES:						
BABY	-	-	-	-	2,700	13,500
SLIDER	-	-	-	-	31,000	1,085
SNAPPER	1,300	130	10,000	500	13,800	1,380
TOTAL	396,100	50,778	2,106,100	253,506	1,528,800	190,829

COLORADO

CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS	
	POUNDS	VALUE	POUNDS	VALUE
CARP	150,000	$4,500	10,000	$300
MINNOWS	1,500	15,000	800	4,000
UNCLASSIFIED, FOR FOOD	5,000	3,000	1,000	600
TOTAL	156,500	22,500	11,800	4,900

NOTE:--THE COMMERCIAL FISHERIES WERE CONFINED TO THE MISSISSIPPI RIVER DRAINAGE AREA.

MISSISSIPPI RIVER FISHERIES

IDAHO

CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		LINES, HAND	
	POUNDS	VALUE	POUNDS	VALUE
CARP	730,000	$18,250	-	-
SUCKERS.	427,400	10,685	-	-
SALMON, RED OR SOCKEYE . .	-	-	74,000	$37,000
TOTAL	1,157,400	28,935	74,000	37,000

NOTE:--THE COMMERCIAL FISHERIES WERE CONFINED TO THE PACIFIC DRAINAGE AREA.

ILLINOIS

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	POTS AND TRAPS, WIRE BASKETS	GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:					
REGULAR.	25	101	61	13	85
CASUAL	40	250	133	34	140
TOTAL.	65	351	194	47	225
BOATS:					
MOTOR.	33	296	154	30	166
OTHER.	28	-	-	-	-
GEAR:					
NUMBER	32	4,826	2,548	74	341
LENGTH, YARDS.	7,450	-	-	-	-
SQUARE YARDS	-	-	-	13,038	66,275

ITEM	LINES, LONG OR SET WITH HOOKS	CROWFOOT BARS	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:				
REGULAR.	17	-	-	139
CASUAL	154	46	50	450
TOTAL.	171	46	50	589
BOATS:				
MOTOR.	146	46	-	467
OTHER.	-	-	-	28
GEAR:				
NUMBER	768	77	-	-
HOOKS.	71,200	-	-	-

ILLINOIS - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS		POTS AND TRAPS		GILL NETS, ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	300	$14	3,500	$188	-	-	500	$30
BUFFALOFISH.	136,600	11,798	634,600	63,162	-	-	48,400	5,309
CARP	197,800	8,887	910,600	44,170	12,000	$596	43,100	2,139
CATFISH AND BULLHEADS. . .	5,300	1,301	382,300	94,766	473,900	118,519	300	76
CRAPPIE.	-	-	200	30	-	-	-	-
EELS, COMMON	-	-	200	33	400	69	-	-
GARFISH.	1,300	65	5,600	280	-	-	6,700	335
MOONEYE.	-	-	100	4	-	-	-	-
PADDLEFISH	3,600	339	8,600	889	-	-	30,900	2,892
QUILLBACK.	14,400	545	50,900	2,189	-	-	1,000	38
SHEEPSHEAD	78,900	5,503	336,300	23,753	-	-	6,200	435
STURGEON, SHOVELNOSE . . .	-	-	6,500	950	-	-	100	17
SUCKERS.	400	13	3,400	192	-	-	200	6
TURTLES, SNAPPER	2,000	336	1,400	236	-	-	-	-
TOTAL.	440,600	28,801	2,344,200	230,842	486,300	119,184	137,400	11,277

ILLINOIS - CATCH BY GEAR, 1964 - Continued

SPECIES	TRAMMEL NETS		LINES, LONG OR SET WITH HOOKS		CROWFOOT BARS		BY HAND	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	400	$17	-	-	-	-	-	-
BUFFALOFISH	869,100	85,363	1,900	$214	-	-	-	-
CARP	767,900	36,459	10,100	502	-	-	-	-
CATFISH AND BULLHEADS	47,000	11,809	142,000	35,287	-	-	-	-
EELS, COMMON	-	-	100	18	-	-	-	-
GARFISH	800	40	300	15	-	-	-	-
PADDLEFISH	33,700	3,177	100	9	-	-	-	-
QUILLBACK	18,900	715	-	-	-	-	-	-
SHEEPSHEAD	91,800	6,495	9,700	742	-	-	-	-
STURGEON, SHOVELNOSE	11,300	1,905	500	59	-	-	-	-
SUCKERS	900	37	-	-	-	-	-	-
MUSSEL SHELLS	-	-	-	-	998,000	$34,870	360,000	$24,300
PEARLS AND SLUGS	-	-	-	-	-	200	-	300
TURTLES, SNAPPER	-	-	3,200	539	-	-	-	-
TOTAL	1,841,800	146,017	167,900	37,385	998,000	35,070	360,000	24,600

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ILLINOIS - CATCH BY WATERS, 1964

SPECIES	MISSISSIPPI RIVER PROPER		OHIO RIVER PROPER		WABASH RIVER AREA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	1,500	$72	-	-	200	$30
BUFFALOFISH	788,300	84,744	41,100	$5,018	15,700	1,570
CARP	1,030,100	50,943	19,300	965	26,300	2,377
CATFISH AND BULLHEADS	834,200	210,095	54,500	13,673	13,700	3,562
CRAPPIE	200	30	-	-	-	-
EELS, COMMON	500	90	-	-	100	15
GARFISH	6,000	300	-	-	2,100	105
MOONEYE	100	4	-	-	-	-
PADDLEFISH	74,400	6,932	1,700	204	500	110
QUILLBACK	16,700	879	600	30	3,000	300
SHEEPSHEAD	471,100	32,946	8,500	775	3,000	420
STURGEON, SHOVELNOSE	13,600	2,331	2,000	236	2,800	364
SUCKERS	800	28	2,300	138	400	40
MUSSEL SHELLS	-	-	28,000	700	600,000	40,500
PEARLS AND SLUGS	-	-	-	-	-	500
TURTLES, SNAPPER	5,300	886	-	-	-	-
TOTAL	3,242,800	390,280	158,000	21,739	667,800	49,893

SPECIES	ILLINOIS RIVER AREA		MISSISSIPPI RIVER AREA, UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	2,400	$135	600	$12
BUFFALOFISH	658,000	52,251	187,500	22,263
CARP	741,900	31,890	123,900	6,578
CATFISH AND BULLHEADS	130,000	29,764	18,400	4,664
EELS, COMMON	100	15	-	-
GARFISH	6,600	330	-	-
PADDLEFISH	-	-	300	60
QUILLBACK	3,100	186	61,800	2,092
SHEEPSHEAD	38,800	2,565	1,500	222
SUCKERS	-	-	1,400	42
MUSSEL SHELLS	730,000	17,970	-	-
TURTLES, SNAPPER	1,300	225	-	-
TOTAL	2,312,200	135,331	395,400	35,933

MISSISSIPPI RIVER FISHERIES
INDIANA

OPERATING UNITS BY GEAR, 1964

ITEM	FYKE AND HOOP NETS, FISH	LINES, LONG OR SET WITH HOOKS	CROWFOOT BARS	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE, CASUAL, TOTAL. . .	28	26	33	145	186
BOATS, MOTOR	28	26	33	-	69
GEAR:					
NUMBER	180	78	33	-	-
HOOKS.	-	4,020	-	-	-

INDIANA - CATCH BY GEAR, 1964

SPECIES	FYKE AND HOOP NETS		LINES, LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH.	20,300	$2,826	700	$99
CARP	800	74	-	-
CATFISH AND BULLHEADS. . .	7,000	1,750	6,000	1,500
QUILLBACK.	3,000	300	-	-
SHEEPSHEAD	1,100	110	600	60
TOTAL.	32,200	5,060	7,300	1,659

SPECIES	CROWFOOT BARS		BY HAND	
	POUNDS	VALUE	POUNDS	VALUE
MUSSEL SHELLS.	600,000	$40,500	1,200,000	$81,000
PEARLS AND SLUGS	-	500	-	1,000
TOTAL.	600,000	41,000	1,200,000	82,000

INDIANA - CATCH BY WATERS, 1964

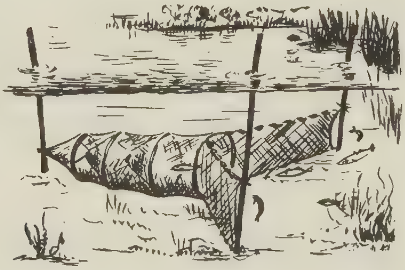
SPECIES	OHIO RIVER PROPER		WABASH RIVER PROPER		WHITE RIVER AREA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH.	6,500	$975	14,500	$1,950	-	-
CARP	500	50	300	24	-	-
CATFISH AND BULLHEADS. . .	7,500	1,875	5,500	1,375	-	-
QUILLBACK.	-	-	3,000	300	-	-
SHEEPSHEAD	1,200	120	500	50	-	-
MUSSEL SHELLS.	-	-	1,200,000	81,000	600,000	$40,500
PEARLS AND SLUGS	-	-	-	1,000	-	500
TOTAL.	15,700	3,020	1,223,800	85,699	600,000	41,000

IOWA

OPERATING UNITS BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON	WEIRS	FYKE AND HOOP NETS, FISH	POTS AND TRAPS, FISH
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:				
REGULAR.	25	7	87	114
CASUAL	52	-	293	384
TOTAL.	77	7	380	498
BOATS:				
MOTOR.	25	-	380	498
OTHER.	24	-	-	-
GEAR:				
NUMBER	30	12	3,574	4,173
LENGTH YARDS	7,666	-	-	-

SPECIES	GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:				
REGULAR.	54	38	88	127
CASUAL	141	139	295	398
TOTAL.	195	177	383	525
BOATS:				
MOTOR.	192	177	383	522
OTHER.	-	-	-	24
GEAR:				
NUMBER	495	252	1,791	-
SQUARE YARDS	34,666	50,000	-	-
HOOKS.	-	-	179,100	-



FYKE NET

IOWA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		WEIRS		FYKE AND HOOP NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	-	-	-	-	1,200	$12
BUFFALOFISH.	290,900	$22,287	-	-	429,300	38,640
CARP	532,100	13,841	143,700	$1,105	415,500	12,466
CATFISH AND BULLHEADS. . .	53,600	11,145	-	-	144,700	29,391
GARFISH.	-	-	-	-	8,400	84
PADDLEFISH	16,800	1,844	-	-	2,600	279
QUILLBACK.	-	-	-	-	100	1
SHEEPSHEAD	127,500	7,480	-	-	258,500	15,508
STURGEON, SHOVELNOSE . . .	700	105	-	-	2,700	412
SUCKERS.	2,100	42	-	-	107,000	2,140
TURTLES, SNAPPER	-	-	-	-	200	26
TOTAL.	1,023,700	56,744	143,700	1,105	1,370,200	98,959

IOWA - CATCH BY GEAR, 1964 - Continued

SPECIES	POTS AND TRAPS		GILL NETS, ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	1,900	$171	110,200	$9,913
CARP	54,200	1,628	242,000	7,332
CATFISH AND BULLHEADS	425,200	86,999	7,700	1,622
PADDLEFISH	700	78	1,100	122
SHEEPSHEAD	200	12	25,200	1,514
STURGEON, SHOVELNOSE	-	-	3,800	566
SUCKERS	400	8	3,800	75
TOTAL	482,600	88,896	393,800	21,144

SPECIES	TRAMMEL NETS		LINES, LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	52,800	$4,755	900	$75
CARP	102,200	3,064	19,700	589
CATFISH AND BULLHEADS	6,200	1,302	103,600	21,333
PADDLEFISH	1,000	117	-	-
SHEEPSHEAD	12,300	735	20,000	1,199
STURGEON, SHOVELNOSE	1,800	271	100	11
SUCKERS	2,100	42	-	-
TOTAL	178,400	10,286	144,300	23,207

IOWA - CATCH BY WATERS, 1964

SPECIES	MISSISSIPPI RIVER PROPER		MISSOURI RIVER AREA		MISSISSIPPI RIVER AREA, UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	1,200	$12	-	-	-	-
BUFFALOFISH	826,800	74,415	22,900	$998	36,300	$428
CARP	1,205,500	36,165	283,100	3,702	20,800	158
CATFISH AND BULLHEADS	732,900	150,107	8,100	1,685	-	-
GARFISH	8,400	84	-	-	-	-
PADDLEFISH	20,500	2,253	1,700	187	-	-
QUILLBACK	100	1	-	-	-	-
SHEEPSHEAD	439,900	26,393	3,800	55	-	-
STURGEON, SHOVELNOSE	9,100	1,365	-	-	-	-
SUCKERS	114,400	2,287	1,000	20	-	-
TURTLES, SNAPPER	200	26	-	-	-	-
TOTAL	3,359,000	293,108	320,600	6,647	57,100	586

MISSISSIPPI RIVER FISHERIES

KANSAS

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE, CASUAL, TOTAL. . .	1	10	10	6	13
BOATS, MOTOR	1	10	10	6	13
GEAR:					
NUMBER	1	52	14	100	-
LENGTH, YARDS.	60	-	-	-	-
SQUARE YARDS	-	-	1,500	-	-
HOOKS.	-	-	-	836	-

KANSAS - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH.	100	$30	1,600	$480
CARP	100	25	13,300	3,325
CATFISH AND BULLHEADS. . .	-	-	2,600	1,300
SUCKERS.	-	-	100	25
TOTAL.	200	55	17,600	5,130

SPECIES	TRAMMEL NETS		LINES, LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH.	2,900	$870	-	-
CARP	14,500	3,625	-	-
CATFISH AND BULLHEADS. . .	2,300	1,150	600	$300
PADDLEFISH	100	35	-	-
QUILLBACK.	400	120	-	-
TOTAL.	20,200	5,800	600	300

NOTE:--THE COMMERCIAL FISHERIES WERE CONFINED TO THE MISSOURI RIVER AREA.

KENTUCKY

OPERATING UNITS BY GEAR, 1964

SPECIES	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS	LINES		CROWFOOT BARS	TOTAL, EXCLUSIVE OF DUPLICATION
				LONG OR SET WITH HOOKS	SNAG		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:							
REGULAR.	230	13	42	155	42	5	257
CASUAL	260	25	63	155	58	31	395
TOTAL.	490	38	105	310	100	36	652
BOATS, MOTOR	268	13	71	180	58	33	368
GEAR:							
NUMBER	2,883	42	130	758	155	66	-
SQUARE YARDS	-	8,800	24,724	-	-	-	-
HOOKS.	-	-	-	55,838	51,124	-	-

KENTUCKY - CATCH BY GEAR, 1964

SPECIES	FYKE AND HOOP NETS		GILL NETS, ANCHOR SET OR STAKE		TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	77,400	$9,284	12,000	$1,439	116,200	$13,945
CARP	124,100	6,206	20,400	1,022	92,400	4,618
CATFISH AND BULLHEADS	294,700	74,850	1,400	329	4,400	1,126
PADDLEFISH	5,500	817	-	-	500	70
QUILLBACK	17,200	1,038	-	-	1,600	94
SHEEPSHEAD	15,700	789	500	23	5,900	293
STURGEON, SHOVELNOSE	600	69	-	-	800	101
SUCKERS	12,400	615	-	-	2,700	135
TOTAL	547,600	93,668	34,300	2,813	224,500	20,382

SPECIES	LINES				CROWFOOT BARS	
	LONG OR SET WITH HOOKS		SNAG			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	4,100	$491	2,100	$257	-	-
CARP	20,300	1,017	1,000	53	-	-
CATFISH AND BULLHEADS	261,400	66,382	42,600	10,812	-	-
PADDLEFISH	500	70	4,100	615	-	-
SHEEPSHEAD	8,300	415	200	8	-	-
STURGEON, SHOVELNOSE	100	17	600	69	-	-
MUSSEL SHELLS	-	-	-	-	264,700	$11,912
PEARLS AND SLUGS	-	-	-	-	-	188
TOTAL	294,700	68,392	50,600	11,814	264,700	12,100

KENTUCKY - CATCH BY WATERS, 1964

SPECIES	MISSISSIPPI RIVER PROPER		OHIO RIVER PROPER		TENNESSEE RIVER AREA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	15,000	$1,796	112,200	$13,453	4,300	$515
CARP	5,800	292	148,400	7,425	-	-
CATFISH AND BULLHEADS	4,700	1,190	172,700	43,877	358,600	91,052
PADDLEFISH	-	-	4,900	735	2,200	330
QUILLBACK	1,200	74	14,600	871	-	-
SHEEPSHEAD	-	-	19,700	982	-	-
STURGEON, SHOVELNOSE	100	9	1,100	141	-	-
SUCKERS	700	34	6,200	310	-	-
MUSSEL SHELLS	-	-	28,000	1,260	140,000	6,300
PEARLS AND SLUGS	-	-	-	-	-	188
TOTAL	27,500	3,395	507,800	69,054	505,100	98,385

SPECIES	CUMBERLAND RIVER AREA		OHIO RIVER AREA, UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	37,100	$4,454	43,200	$5,198
CARP	72,900	3,645	31,100	1,554
CATFISH AND BULLHEADS	36,600	9,293	31,900	8,087
PADDLEFISH	1,200	178	2,300	329
QUILLBACK	1,900	118	1,100	69
SHEEPSHEAD	6,100	303	4,800	243
STURGEON, SHOVELNOSE	900	106	-	-
SUCKERS	1,400	69	6,800	337
MUSSEL SHELLS	-	-	96,700	4,352
TOTAL	158,100	18,166	217,900	20,169

MISSISSIPPI RIVER FISHERIES
LOUISIANA
OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	POTS		GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS
			CRAWFISH	SHRIMP		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:						
REGULAR	8	520	255	19	441	341
CASUAL	-	561	396	28	449	322
TOTAL	8	1,081	651	47	890	663
BOATS, MOTOR	3	1,081	641	47	885	663
GEAR:						
NUMBER	3	26,018	20,980	560	2,165	1,321
LENGTH, YARDS	2,200	-	-	-	-	-
SQUARE YARDS	-	-	-	-	587,864	232,424

ITEM	LINES		DIP NETS		GRABS, FROG	TOTAL, EXCLUSIVE OF DUPLICATION
	HAND	LONG OR SET WITH HOOKS	COMMON	DROP		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:						
REGULAR	13	342	34	7	74	611
CASUAL	40	459	148	2	124	870
TOTAL	53	801	182	9	198	1,481
BOATS, MOTOR	53	801	182	9	198	1,471
GEAR:						
NUMBER	97	2,111	182	315	198	-
HOOKS	97	314,525	-	-	-	-

LOUISIANA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS		POTS AND TRAPS			
					CRAWFISH		SHRIMP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	7,600	$242	16,500	$786	-	-	-	-
BUFFALOFISH	45,600	3,648	1,026,200	100,463	-	-	-	-
CARP	9,400	219	54,800	2,081	-	-	-	-
CATFISH AND BULLHEADS	14,900	3,022	700,600	147,395	-	-	-	-
GARFISH	15,200	760	25,500	1,280	-	-	-	-
PADDLEFISH	800	56	5,200	348	-	-	-	-
SHEEPSHEAD	17,000	1,388	236,600	23,487	-	-	-	-
CRAWFISH	-	-	-	-	1,866,900	$308,618	-	-
SHRIMP	-	-	-	-	-	-	17,200	$4,300
TURTLES, SNAPPER	5,100	918	21,800	3,907	-	-	-	-
TOTAL	115,600	10,253	2,087,200	279,747	1,866,900	308,618	17,200	4,300

SPECIES	GILL NETS, ANCHOR, SET OR STAKE		TRAMMEL NETS		LINES			
					HAND		LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	30,300	$1,208	20,300	$893	-	-	-	-
BUFFALOFISH	801,200	80,552	590,000	60,084	-	-	-	-
CARP	51,500	1,576	31,700	1,144	-	-	-	-
CATFISH AND BULLHEADS	335,900	73,411	281,000	62,929	-	-	405,800	$90,925
GARFISH	123,500	6,153	124,700	6,232	-	-	43,800	2,235
PADDLEFISH	4,900	331	4,300	291	-	-	7,200	372
SHEEPSHEAD	141,800	13,345	98,900	9,864	-	-	-	-
TURTLES, SNAPPER	17,100	3,003	11,800	2,016	10,300	$1,710	44,100	6,720
TOTAL	1,506,200	179,579	1,162,700	143,453	10,300	1,710	500,900	100,252

SPECIES	DIP NETS				GRABS, FROG	
	COMMON		DROP			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRAWFISH	-	-	120,000	$21,600	-	-
TURTLES, BABY	8,100	$32,400	-	-	-	-
FROGS	5,000	1,750	-	-	44,700	$15,630
TOTAL	13,100	34,150	120,000	21,600	44,700	15,630

LOUISIANA - CATCH BY WATERS, 1964

SPECIES	MISSISSIPPI RIVER PROPER		ATCHAFALAYA RIVER AREA	
	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	2,500	$125	9,500	$730
BUFFALOFISH	55,400	6,173	853,700	74,781
CARP	7,800	234	27,000	1,233
CATFISH AND BULLHEADS	31,000	7,206	1,106,800	226,065
GARFISH	2,000	100	113,600	5,680
PADDLEFISH	-	-	2,600	150
SHEEPSHEAD	13,800	1,380	239,700	23,556
CRAWFISH	6,000	1,080	1,780,900	291,538
SHRIMP	7,900	1,975	9,300	2,325
TURTLES:				
BABY	-	-	1,900	7,600
SNAPPER	4,000	600	10,200	1,568
FROGS	5,000	1,750	21,300	7,455
TOTAL	135,400	20,623	4,176,500	642,681

SPECIES	RED RIVER AREA		MISSISSIPPI RIVER AREA, UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	52,700	$1,774	10,000	$500
BUFFALOFISH	1,248,400	134,977	305,500	28,816
CARP	71,300	2,322	41,300	1,231
CATFISH AND BULLHEADS	437,500	107,414	162,900	36,997
GARFISH	146,500	7,350	70,600	3,530
PADDLEFISH	16,200	1,068	3,600	180
SHEEPSHEAD	161,200	16,228	79,600	6,920
CRAWFISH	120,000	21,600	80,000	16,000
TURTLES:				
BABY	5,400	21,600	800	3,200
SNAPPER	74,400	13,046	21,600	3,060
FROGS	21,600	7,530	1,800	645
TOTAL	2,355,200	334,909	777,700	101,079

MINNESOTA

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	WEIRS	POUND NETS, FISH	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR SET OR STAKE	LINES, LONG OR SET WITH HOOKS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:							
REGULAR	131	18	3	93	143	6	294
CASUAL	150	-	6	128	98	39	340
TOTAL	281	18	9	221	241	45	634
BOATS:							
MOTOR	74	-	3	75	135	44	277
OTHER	51	-	-	8	-	-	55
GEAR:							
NUMBER	39	40	17	1,767	238	44	-
LENGTH, YARDS	27,131	-	-	-	-	-	-
SQUARE YARDS	-	-	-	-	342,400	-	-
HOOKS	-	-	-	-	-	10,188	-

MINNESOTA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		WEIRS		POUND NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	2,100	$40	1,100	$22	200	$5
BUFFALOFISH	623,800	52,798	10,200	1,126	25,900	2,850
BURBOT	-	-	-	-	300	7
CARP	4,275,700	101,835	487,500	14,138	-	-
CATFISH AND BULLHEADS	301,600	18,960	41,900	2,935	-	-
GARFISH	12,300	173	-	-	-	-
QUILLBACK	400	9	-	-	-	-
SHEEPSHEAD	533,200	18,294	-	-	-	-
SUCKERS	16,500	431	3,900	116	-	-
WHITE BASS	5,600	418	-	-	-	-
WHITEFISH	-	-	-	-	4,700	1,815
TURTLES, SNAPPER	200	24	-	-	-	-
TOTAL	5,771,400	192,982	544,600	18,337	31,100	4,677

SPECIES	FYKE AND HOOP NETS		GILL NETS, ANCHOR, SET OR STAKE		LINES, LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	12,800	$249	-	-	-	-
BUFFALOFISH	73,800	3,278	46,200	$5,085	400	$41
BURBOT	15,700	312	200	4	-	-
CARP	1,105,500	29,305	222,600	6,454	3,600	106
CATFISH AND BULLHEADS	1,852,400	104,305	12,800	3,439	19,000	4,902
CRAPPIE	-	-	1,600	545	-	-
MOONEYE	-	-	12,000	2,119	-	-
PIKE OR PICKEREL	-	-	92,900	13,232	-	-
QUILLBACK	-	-	1,900	41	-	-
SHEEPSHEAD	28,400	951	175,300	5,907	3,600	173
SUCKERS	20,200	529	600	19	100	2
TULLIBEE	100	3	-	-	-	-
WHITE BASS	51,100	3,760	-	-	-	-
WHITEFISH	-	-	127,500	49,825	-	-
YELLOW PERCH	39,200	9,167	240,100	56,111	-	-
YELLOW PIKE	-	-	638,000	206,397	-	-
TURTLES, SNAPPER	2,300	274	-	-	-	-
TOTAL	3,201,500	152,133	1,571,700	349,178	26,700	5,224

MINNESOTA - CATCH BY WATERS, 1964

SPECIES	MISSISSIPPI RIVER AREA					
	MISSISSIPPI RIVER PROPER		ST. CROIX RIVER PROPER		UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	-	-	-	-	12,000	$231
BUFFALOFISH	56,100	$6,175	10,600	$1,415	712,200	57,439
BURBOT	-	-	-	-	14,000	280
CARP	389,200	11,287	445,100	11,572	4,328,200	101,940
CATFISH AND BULLHEADS	26,400	6,970	-	-	1,582,600	83,229
GARFISH	-	-	4,800	42	7,500	131
QUILLBACK	2,300	50	-	-	-	-
SHEEPSHEAD	16,600	798	54,400	2,614	499,000	16,239
SUCKERS	1,200	36	1,400	109	30,200	774
TULLIBEE	-	-	-	-	100	3
WHITE BASS	-	-	-	-	56,700	4,178
YELLOW PERCH	-	-	-	-	38,500	9,000
TURTLES, SNAPPER	-	-	-	-	2,200	263
TOTAL	491,800	25,316	516,300	15,752	7,283,200	273,707

SPECIES	NORTHERN DRAINAGE AREA			
	RED RIVER OF THE NORTH AREA		NORTHERN DRAINAGE AREA, UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	4,200	$85	-	-
BUFFALOFISH	1,400	149	-	-
BURBOT	1,900	37	300	$6
CARP	932,400	27,039	-	-
CATFISH AND BULLHEADS	618,700	44,342	-	-
CRAPPIE	1,600	545	-	-
MOONEYE	12,000	2,119	-	-
PIKE OR PICKEREL	92,900	13,232	-	-
SHEEPSHEAD	170,500	5,674	-	-
SUCKERS	7,200	141	1,300	37
WHITEFISH, COMMON	124,300	48,548	7,900	3,092
YELLOW PERCH	240,800	56,278	-	-
YELLOW PIKE	638,000	206,397	-	-
TURTLES, SNAPPER	300	35	-	-
TOTAL	2,846,200	404,621	9,500	3,135

MISSISSIPPI RIVER FISHERIES

MISSISSIPPI

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS	LINES		DIP NETS, COMMON	TOTAL, EXCLUSIVE OF DUPLICATION
					LONG OR SET WITH HOOKS	SNAG		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:								
REGULAR	52	110	182	50	178	71	15	212
CASUAL	25	232	177	18	255	59	10	407
TOTAL	77	342	359	68	433	130	25	619
BOATS:								
MOTOR	40	311	341	63	384	119	21	549
OTHER	21	-	-	-	-	-	-	21
GEAR:								
NUMBER	31	3,135	881	155	1,370	345	25	-
LENGTH, YARDS	10,400	-	-	-	-	-	-	-
SQUARE YARDS	-	-	339,280	51,090	-	-	-	-
HOOKS	-	-	-	-	346,200	462,825	-	-

MISSISSIPPI - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS		GILL NETS, ANCHOR, SET OR STAKE		TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	-	-	1,000	$48	-	-	-	-
BUFFALOFISH	157,000	$16,092	485,000	51,151	1,003,500	$104,809	116,500	$12,017
CARP	28,900	1,156	161,000	7,172	159,000	6,963	60,800	2,472
CATFISH AND BULLHEADS	2,500	530	44,600	10,488	57,500	13,548	10,700	2,342
GARFISH	7,000	388	5,300	294	22,400	1,241	7,500	416
PADDLEFISH	500	39	1,500	118	2,000	158	500	39
QUILLBACK	1,000	50	2,000	100	-	-	-	-
SHEEPSHEAD	1,800	109	13,000	763	13,100	779	5,200	315
SUCKERS	-	-	800	40	-	-	-	-
TOTAL	198,700	18,364	714,200	70,174	1,257,500	127,498	201,200	17,601

SPECIES	LINES				DIP NETS, COMMON	
	LONG OR SET WITH HOOKS		SNAG			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	2,000	$96	-	-	-	-
BUFFALOFISH	4,500	467	5,500	$577	-	-
CARP	5,500	238	5,500	244	-	-
CATFISH AND BULLHEADS	289,300	69,174	74,000	17,799	-	-
GARFISH	8,000	443	10,000	554	-	-
PADDLEFISH	-	-	12,000	996	-	-
SHEEPSHEAD	6,800	405	1,000	57	-	-
TURTLES, BABY	-	-	-	-	400	$1,400
TOTAL	316,100	70,823	108,000	20,227	400	1,400

MISSISSIPPI - CATCH BY WATERS, 1964

SPECIES	TENNESSEE RIVER AREA		MISSISSIPPI RIVER AREA, UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	-	-	3,000	$144
BUFFALOFISH	13,700	$1,370	1,758,300	183,743
CARP	8,700	435	412,000	17,810
CATFISH AND BULLHEADS	43,900	10,975	434,700	102,906
GARFISH	-	-	60,200	3,336
PADDLEFISH	2,400	240	14,100	1,110
QUILLBACK	-	-	3,000	150
SHEEPSHEAD	1,300	65	39,600	2,363
SUCKERS	-	-	800	40
TURTLES, BABY	-	-	400	1,400
TOTAL	70,000	13,085	2,726,100	313,002

MISSISSIPPI RIVER FISHERIES

MISSOURI

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	1	16	23	5	28
CASUAL	4	115	131	79	242
TOTAL	5	131	154	84	270
BOATS:					
MOTOR	3	128	152	83	266
OTHER	1	-	-	-	1
GEAR:					
NUMBER	3	1,066	179	173	-
LENGTH, YARDS	700	-	-	-	-
SQUARE YARDS	-	-	30,730	-	-
HOOKS	-	-	-	16,724	-

MISSOURI - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS		TRAMMEL NETS		LINES, LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	900	$126	43,800	$6,132	95,800	$13,412	500	$70
CARP	900	54	65,500	3,930	59,000	3,540	2,200	132
CATFISH AND BULLHEADS . . .	200	60	20,800	6,240	16,500	4,950	10,900	3,270
EELS, COMMON	-	-	-	-	-	-	200	32
PADDLEFISH	100	12	800	96	2,500	300	-	-
QUILLBACK	1,300	78	3,400	204	2,700	162	-	-
SHEEPSHEAD	200	24	13,800	1,656	3,600	432	1,600	192
STURGEON, SHOVELNOSE . . .	-	-	400	60	2,600	390	700	105
SUCKERS	-	-	1,400	84	500	30	-	-
TOTAL	3,600	354	149,900	18,402	183,200	23,216	16,100	3,801

MISSOURI - CATCH BY WATERS, 1964

SPECIES	MISSISSIPPI RIVER PROPER		MISSOURI RIVER PROPER		MISSISSIPPI RIVER AREA, UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	49,600	$6,944	23,000	$3,220	68,400	$9,576
CARP	45,400	2,724	58,000	3,480	24,200	1,452
CATFISH AND BULLHEADS . . .	34,300	10,290	13,600	4,080	500	150
EELS, COMMON	100	16	100	16	-	-
PADDLEFISH	1,700	204	1,700	204	-	-
QUILLBACK	3,500	210	3,900	234	-	-
SHEEPSHEAD	15,800	1,896	2,700	324	700	84
STURGEON, SHOVELNOSE . . .	3,000	450	700	105	-	-
SUCKERS	900	54	1,000	60	-	-
TOTAL	154,300	22,788	104,700	11,723	93,800	11,262

MONTANA

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR SET OR STAKE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:				
REGULAR	2	2	3	5
CASUAL	3	3	3	6
TOTAL	5	5	6	11
BOATS:				
MOTOR	3	4	4	8
OTHER	2	-	-	2
GEAR:				
NUMBER	2	18	10	-
LENGTH, YARDS	600	-	-	-
SQUARE YARDS	-	-	16,600	-

MONTANA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS		GILL NETS, ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	-	-	-	-	120,900	$12,644
CARP	99,400	$1,983	5,100	$198	5,400	209
CATFISH AND BULLHEADS	-	-	2,200	507	2,200	507
SHEEPSHEAD	-	-	-	-	700	34
SUCKERS	1,300	26	-	-	-	-
TOTAL	100,700	2,009	7,300	705	129,200	13,394

NOTE:--THE COMMERCIAL FISHERIES WERE CONFINED TO THE MISSOURI RIVER DRAINAGE AREA.

NEBRASKA

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	POTS AND TRAPS, FISH	TRAMMEL NETS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	17	30	11	15	30
CASUAL	33	77	22	84	106
TOTAL	50	107	33	99	136
BOATS:					
MOTOR	29	99	29	94	111
OTHER	25	-	-	-	25
GEAR:					
NUMBER	25	856	240	158	-
LENGTH, YARDS	2,635	-	-	-	-
SQUARE YARDS	-	-	-	23,867	-

NEBRASKA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS		POTS AND TRAPS		TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	1,600	$235	2,700	$506	700	$151	4,100	$722
CARP	44,800	2,340	74,500	6,580	15,900	2,499	37,300	5,436
CATFISH AND BULLHEADS	5,800	481	16,300	4,630	7,100	2,938	11,800	4,572
QUILLBACK	22,200	728	22,300	728	-	-	-	-
SHEEPSHEAD	6,900	175	6,900	175	-	-	-	-
STURGEON, SHOVELNOSE	-	-	-	-	-	-	100	25
TOTAL	81,300	3,959	122,700	12,619	23,700	5,588	53,300	10,755

NOTE:--THE COMMERCIAL FISHERIES WERE CONFINED TO THE MISSOURI RIVER DRAINAGE AREA.

NEW MEXICO

THE COMMERCIAL FISHERIES WERE CONFINED TO ELEPHANT BUTTE LAKE OF THE RIO GRANDE RIVER DRAINAGE AREA. THE CATCH CONSISTED OF BUFFALOFISH, 57,700 POUNDS, $16,160; AND CARP, 1,200 POUNDS, $331.

NORTH DAKOTA

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR, SET OR STAKE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:				
REGULAR.	2	4	2	8
CASUAL	12	3	2	17
TOTAL.	14	7	4	25
BOATS, MOTOR	-	3	2	5
GEAR:				
NUMBER	1	70	12	-
LENGTH, YARDS.	1,000	-	-	-
SQUARE YARDS	-	-	1,700	-

NORTH DAKOTA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS		GILL NETS, ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH.	14,700	$781	49,700	$2,632	28,400	$1,507
CARP	75,600	2,725	-	-	1,600	57
CATFISH AND BULLHEADS. . .	28,100	3,111	280,700	21,281	800	106
PADDLEFISH	-	-	700	86	1,100	133
SUCKERS.	4,100	204	2,600	55	-	-
TOTAL.	122,500	6,821	333,700	24,054	31,900	1,803

NORTH DAKOTA - CATCH BY WATERS, 1964

SPECIES	RED RIVER OF THE NORTH		MISSOURI RIVER AREA	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH.	14,700	$781	78,100	$4,139
CARP	75,600	2,725	1,600	57
CATFISH AND BULLHEADS. . .	28,100	3,111	281,500	21,387
PADDLEFISH	-	-	1,800	219
SUCKERS.	4,100	204	2,600	55
TOTAL.	122,500	6,821	365,600	25,857

OKLAHOMA

OPERATING UNITS BY GEAR, 1964

ITEM	GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:			
REGULAR.	76	38	76
CASUAL	58	-	58
TOTAL.	134	38	134
BOATS, MOTOR	134	38	134
GEAR:			
NUMBER	472	70	-
SQUARE YARDS	191,192	18,550	-

OKLAHOMA - CATCH BY GEAR, 1964

SPECIES	GILL NETS, ANCHOR, SET OR STAKE		TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH.	338,700	$40,644	59,800	$7,176
CARP	133,300	6,665	23,500	1,175
CATFISH AND BULLHEADS. . .	59,300	18,976	10,500	3,360
GARFISH.	4,000	160	1,000	40
PADDLEFISH	11,200	1,120	2,000	200
QUILLBACK.	4,000	160	1,000	40
SHEEPSHEAD	30,700	3,684	5,500	660
WHITE BASS	12,400	2,480	2,200	440
TOTAL.	593,600	73,889	105,500	13,091

OKLAHOMA - CATCH BY WATERS, 1964

SPECIES	RED RIVER AREA		ARKANSAS RIVER AREA	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH.	226,000	$27,120	172,500	$20,700
CARP	66,700	3,335	90,100	4,505
CATFISH AND BULLHEADS. . .	10,800	3,456	59,000	18,880
GARFISH.	2,500	100	2,500	100
PADDLEFISH	-	-	13,200	1,320
QUILLBACK.	4,000	160	1,000	40
SHEEPSHEAD	7,100	852	29,100	3,492
WHITE BASS	700	140	13,900	2,780
TOTAL.	317,800	35,163	381,300	51,817

SOUTH DAKOTA

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR, SET OR STAKE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:				
REGULAR	20	9	10	33
CASUAL	30	2	-	32
TOTAL	50	11	10	65
BOATS:				
MOTOR	10	7	7	20
OTHER	10	-	-	10
GEAR:				
NUMBER	7	173	33	-
LENGTH, YARDS	5,067	-	-	-
SQUARE YARDS	-	-	13,200	-

SOUTH DAKOTA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS		GILL NETS, ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	1,168,200	$105,138	63,900	$5,753	513,900	$46,254
CARP	1,229,200	18,438	900	14	3,700	55
CATFISH AND BULLHEADS	-	-	186,500	9,450	15,900	2,384
SHEEPSHEAD	-	-	1,000	29	3,900	117
SUCKERS	20,600	309	-	-	500	7
TOTAL	2,418,000	123,885	252,300	15,246	537,900	48,817

SOUTH DAKOTA - CATCH BY WATERS, 1964

SPECIES	MISSOURI RIVER AREA		MISSISSIPPI RIVER AREA UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH	1,743,800	$156,947	2,200	$198
CARP	476,500	7,147	757,300	11,360
CATFISH AND BULLHEADS	202,400	11,834	-	-
SHEEPSHEAD	4,900	146	-	-
SUCKERS	20,700	310	400	6
TOTAL	2,448,300	176,384	759,900	11,564

TENNESSEE

OPERATING UNITS BY GEAR, 1964

ITEM	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS	LINES		DIP NETS, COMMON	CROWFOOT BARS	TOTAL, EXCLUSIVE OF DUPLICATION
				LONG OR SET WITH HOOKS	SNAG			
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:								
REGULAR	181	83	155	205	115	1	168	544
CASUAL	262	70	100	404	169	2	98	723
TOTAL	443	153	255	609	284	3	266	1,267
BOATS, MOTOR	443	153	255	605	283	3	266	1,263
GEAR:								
NUMBER	4,521	238	770	4,824	1,529	3	523	-
SQUARE YARDS	-	56,865	204,659	-	-	-	-	-
HOOKS	-	-	-	441,740	723,800	-	-	-

TENNESSEE - CATCH BY GEAR, 1964

SPECIES	FYKE AND HOOP NETS		GILL NETS, ANCHOR, SET OR STAKE		TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	15,000	$750	-	-	600	$30
BUFFALOFISH.	320,500	38,835	156,700	$17,804	1,172,600	135,879
CARP	296,100	14,805	116,600	5,155	1,030,600	48,323
CATFISH AND BULLHEADS. . . .	179,400	44,850	83,700	20,525	390,700	95,967
CRAPPIE.	6,400	1,280	-	-	4,600	920
GARFISH.	-	-	3,300	165	3,900	195
PADDLEFISH	4,600	690	48,200	7,340	53,900	8,165
QUILLBACK.	9,200	534	2,400	142	213,000	12,275
SHEEPSHEAD	63,900	3,310	20,500	1,058	128,000	6,822
STURGEON, SHOVELNOSE	-	-	-	-	200	30
SUCKERS.	200	20	-	-	2,800	280
YELLOW BASS.	600	51	-	-	-	-
TOTAL	895,900	105,125	431,400	52,189	3,000,900	308,886

SPECIES	LINES				DIP NETS, COMMON		CROWFOOT BARS	
	LONG OR SET WITH HOOKS		SNAG					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	13,000	$650	-	-	-	-	-	-
BUFFALOFISH.	31,800	3,401	18,000	$2,200	-	-	-	-
CARP	22,500	894	13,400	646	-	-	-	-
CATFISH AND BULLHEADS. . . .	1,246,600	308,974	359,000	89,146	-	-	-	-
CRAPPIE.	2,000	400	-	-	-	-	-	-
GARFISH.	100	5	-	-	-	-	-	-
PADDLEFISH	5,100	783	313,800	47,125	-	-	-	-
QUILLBACK.	3,400	186	600	33	-	-	-	-
SHEEPSHEAD	46,500	2,449	9,200	471	-	-	-	-
STURGEON, SHOVELNOSE	100	15	-	-	-	-	-	-
YELLOW BASS.	100	9	-	-	-	-	-	-
MUSSEL SHELLS.	-	-	-	-	-	-	3,352,000	$215,895
PEARLS AND SLUGS	-	-	-	-	-	-	-	7,082
TURTLES, BABY.	-	-	-	-	300	$1,500	-	-
TOTAL	1,371,200	317,766	714,000	139,621	300	1,500	3,352,000	222,977

TENNESSEE - CATCH BY WATERS, 1964

SPECIES	TENNESSEE RIVER AREA		CUMBERLAND RIVER AREA		MISSISSIPPI RIVER AREA, UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	-	-	-	-	28,600	$1,430
BUFFALOFISH.	1,017,400	$114,653	53,400	$8,010	628,800	75,456
CARP	980,500	44,888	60,000	3,000	438,700	21,935
CATFISH AND BULLHEADS. . . .	1,564,200	385,662	64,500	16,125	630,700	157,675
CRAPPIE.	-	-	-	-	13,000	2,600
GARFISH.	7,200	360	-	-	100	5
PADDLEFISH	416,800	62,828	900	90	7,900	1,185
QUILLBACK.	224,200	12,936	3,000	150	1,400	84
SHEEPSHEAD	189,000	9,360	15,900	1,590	63,200	3,160
STURGEON, SHOVELNOSE	-	-	300	45	-	-
SUCKERS.	-	-	3,000	300	-	-
YELLOW BASS.	-	-	-	-	700	60
MUSSEL SHELLS.	3,262,000	212,520	90,000	3,375	-	-
PEARLS AND SLUGS	-	7,082	-	-	-	-
TURTLES, BABY.	-	-	-	-	300	1,500
TOTAL	7,661,300	850,289	291,000	32,685	1,813,400	265,090

MISSISSIPPI RIVER FISHERIES

TEXAS

OPERATING UNITS BY GEAR, 1964

ITEM	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR SET OR STAKE	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	TOTAL, EXCLUSIVE OF DUPLI-CATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:					
REGULAR.	66	148	28	110	148
CASUAL	54	262	6	284	348
TOTAL.	120	410	34	394	496
BOATS, MOTOR	114	372	34	344	428
GEAR:					
NUMBER	788	970	66	1,182	-
SQUARE YARDS	-	207,690	13,200	-	-
HOOKS.	-	-	-	88,650	-

TEXAS - CATCH BY GEAR, 1964

SPECIES	FYKE AND HOOP NETS		GILL NETS, ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH.	66,100	$7,271	668,200	$73,502
CARP	2,300	115	45,700	2,285
CATFISH AND BULLHEADS. . .	12,300	3,690	18,500	5,550
GARFISH.	10,300	515	97,800	4,890
QUILLBACK.	100	5	2,300	115
SHEEPSHEAD	3,400	340	5,300	530
SUCKERS.	2,500	125	3,300	165
TURTLES, SNAPPER	500	50	2,500	250
TOTAL.	97,500	12,111	843,600	87,287

SPECIES	TRAMMEL NETS		LINES, LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH.	26,000	$2,860	4,000	$440
CARP	4,500	225	1,000	50
CATFISH AND BULLHEADS. . .	2,000	600	61,700	18,510
GARFISH.	900	45	4,500	225
SHEEPSHEAD	-	-	5,500	550
TOTAL.	33,400	3,730	76,700	19,775

TEXAS - CATCH BY WATERS, 1964

SPECIES	RED RIVER AREA		GULF OF MEXICO AREA	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH.	304,400	$33,484	459,900	$50,589
CARP	16,800	840	36,700	1,835
CATFISH AND BULLHEADS. . .	94,500	28,350	-	-
GARFISH.	17,600	880	95,900	4,795
QUILLBACK.	-	-	2,400	120
SHEEPSHEAD	9,900	990	4,300	430
SUCKERS.	3,700	185	2,100	105
TURTLES, SNAPPER	2,000	200	1,000	100
TOTAL.	448,900	64,929	602,300	57,974

MISSISSIPPI RIVER FISHERIES

WISCONSIN

OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS, FISH	WEIRS	TRAP NETS, FISH	FYKE AND HOOP NETS'	GILL NETS, ANCHOR, SET OR STAKE
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	-	12	-	-	-	-
ON BOATS AND SHORE:						
REGULAR	90	9	6	20	44	110
CASUAL	90	-	2	6	32	81
TOTAL	180	21	8	26	76	191
VESSELS, MOTOR	-	4	-	-	-	-
GROSS TONNAGE	-	55	-	-	-	-
BOATS:						
MOTOR	72	2	-	13	52	108
OTHER	54	-	-	-	-	-
GEAR:						
NUMBER	49	6	3	164	1,523	117
LENGTH, YARDS	23,837	95	-	-	-	-
SQUARE YARDS	-	-	-	-	-	48,520

ITEM	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	DIP NETS, COMMON	CROWFOOT BARS	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS	-	-	-	-	-	12
ON BOATS AND SHORE:						
REGULAR	3	68	-	13	-	211
CASUAL	7	351	2	-	5	526
TOTAL	10	419	2	13	5	749
VESSELS, MOTOR	-	-	-	-	-	4
GROSS TONNAGE	-	-	-	-	-	55
BOATS:						
MOTOR	7	394	-	13	-	540
OTHER	-	-	-	-	-	54
GEAR:						
NUMBER	7	399	2	26	-	-
SQUARE YARDS	1,100	-	-	-	-	-
HOOKS	-	113,945	-	-	-	-

WISCONSIN - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		OTTER TRAWLS		WEIRS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	3,800	$38	-	-	-	-
BUFFALOFISH	638,500	70,237	-	-	178,700	$19,658
BURBOT	33,000	330	4,500	$45	-	-
CARP	5,810,400	174,312	40,700	1,221	116,200	3,488
CATFISH AND BULLHEADS	9,800	2,245	1,900	153	-	-
GARFISH	16,600	166	-	-	-	-
MOONEYE	11,700	234	-	-	100	1
QUILLBACK	7,100	142	-	-	-	-
SHEEPSHEAD	458,200	27,491	1,464,200	87,848	100	3
STURGEON, COMMON	200	50	-	-	-	-
SUCKERS	58,400	1,168	300	6	1,400	28
TURTLES, SNAPPER	400	44	-	-	-	-
TOTAL	7,048,100	276,457	1,511,600	89,273	296,500	23,178

SPECIES	TRAP NETS		FYKE AND HOOP NETS		GILL NETS, ANCHOR SET OR STAKE		TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	-	-	100	$1	1,600	$16	-	-
BUFFALOFISH	-	-	100,900	11,103	372,900	41,023	900	$101
BURBOT	15,300	$153	-	-	-	-	-	-
CARP	182,100	5,462	75,800	2,272	1,196,200	35,885	500	14
CATFISH AND BULLHEADS	100,700	8,056	410,500	92,327	22,300	5,348	800	189
GARFISH	-	-	3,900	39	4,600	46	800	15
MOONEYE	-	-	-	-	1,200	24	-	-
QUILLBACK	-	-	4,900	97	7,000	140	-	-
SHEEPSHEAD	488,300	29,300	73,500	4,407	34,400	2,063	1,200	69
STURGEON, COMMON	-	-	200	48	-	-	100	35
SUCKERS	46,700	934	22,100	443	2,500	50	200	4
TURTLES, SNAPPER	-	-	800	99	2,200	269	-	-
TOTAL	833,100	43,905	692,700	110,836	1,644,900	84,864	4,500	427

(CONTINUED ON NEXT PAGE)

WISCONSIN - CATCH BY GEAR, 1964 - Continued

SPECIES	LINES, LONG OR SET WITH HOOKS		DIP NETS, COMMON		CROWFOOT BARS		BY HAND	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	2,700	$27	-	-	-	-	-	-
BUFFALOFISH	1,500	161	500	$55	-	-	-	-
CARP	39,200	1,174	1,600	47	-	-	-	-
CATFISH AND BULLHEADS	234,700	52,085	-	-	-	-	-	-
EELS, COMMON	100	22	-	-	-	-	-	-
GARFISH	700	7	-	-	-	-	-	-
MOONEYE	200	4	-	-	-	-	-	-
SHEEPSHEAD	29,600	1,775	-	-	-	-	-	-
STURGEON, SHOVELNOSE	1,100	260	-	-	-	-	-	-
SUCKERS	300	7	-	-	-	-	-	-
MUSSEL SHELLS	-	-	-	-	162,500	$4,875	11,600	$348
TURTLES, SNAPPER	2,700	329	-	-	-	-	-	-
TOTAL	312,800	55,851	2,100	102	162,500	4,875	11,600	348

WISCONSIN - CATCH BY WATERS, 1964

SPECIES	MISSISSIPPI RIVER PROPER		MISSISSIPPI RIVER AREA, UNCLASSIFIED		LAKE WINNEBAGO	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	4,900	$49	3,200	$32	100	$1
BUFFALOFISH	678,800	74,672	615,100	67,666	-	-
BURBOT	-	-	28,500	285	24,300	243
CARP	4,106,500	123,191	3,306,500	99,193	49,700	1,491
CATFISH AND BULLHEADS	677,400	152,142	103,300	8,261	-	-
EELS, COMMON	100	22	-	-	-	-
GARFISH	11,400	114	15,100	150	100	9
MOONEYE	8,200	163	4,900	98	100	2
QUILLBACK	19,000	379	-	-	-	-
SHEEPSHEAD	471,600	28,292	125,600	7,532	1,952,300	117,132
STURGEON, SHOVELNOSE	1,600	393	-	-	-	-
SUCKERS	54,300	1,087	77,200	1,545	400	8
MUSSEL SHELLS	174,100	5,223	-	-	-	-
TURTLES, SNAPPER	6,000	724	100	17	-	-
TOTAL	6,213,900	386,451	4,279,500	184,779	2,027,000	118,886

WYOMING

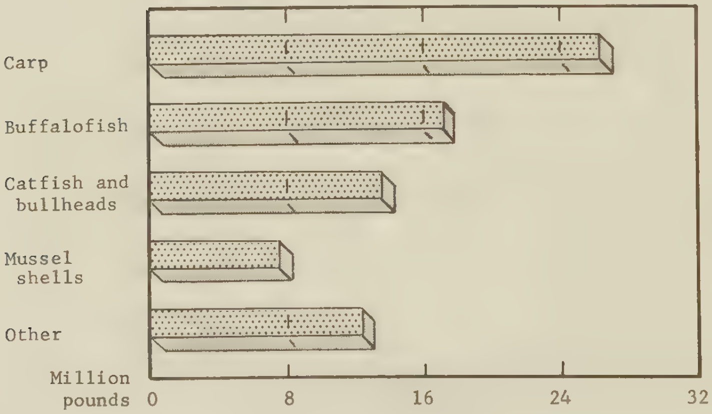
THE COMMERCIAL FISHERIES WERE CONFINED TO THE MISSISSIPPI RIVER DRAINAGE AREA. THE CATCH CONSISTED OF CARP, 198,000 POUNDS, $5,940; SHEEPSHEAD, 95,000 POUNDS, $5,700. TWO CASUAL FISHERMEN EMPLOYING 2 MOTOR BOATS FISHED 1 HAUL SEINE OF 100 YARDS IN LENGTH.

GREAT LAKES AND MISSISSIPPI RIVER CATCH - BY STATES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

STATE	GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALABAMA	-	-	4,579	829	4,579	829
ARIZONA	-	-	12	2	12	2
ARKANSAS	-	-	4,031	495	4,031	495
COLORADO	-	-	168	27	168	27
IDAHO	-	-	1,231	66	1,231	66
ILLINOIS	645	112	6,776	633	7,421	745
INDIANA	11	2	1,840	130	1,851	132
IOWA	-	-	3,737	300	3,737	300
KANSAS	-	-	39	11	39	11
KENTUCKY	-	-	1,416	209	1,416	209
LOUISIANA	-	-	7,444	1,099	7,444	1,099
MICHIGAN	19,769	2,522	-	-	19,769	2,522
MINNESOTA	5,199	242	11,147	723	16,346	965
MISSISSIPPI	-	-	2,796	326	2,796	326
MISSOURI	-	-	353	46	353	46
MONTANA	-	-	237	16	237	16
NEBRASKA	-	-	281	33	281	33
NEW MEXICO	-	-	59	16	59	16
NEW YORK	446	90	-	-	446	90
NORTH DAKOTA	-	-	488	33	488	33
OHIO	11,230	1,008	-	-	11,230	1,008
OKLAHOMA	-	-	699	87	699	87
PENNSYLVANIA	817	91	-	-	817	91
SOUTH DAKOTA	-	-	3,208	188	3,208	188
TENNESSEE	-	-	9,766	1,148	9,766	1,148
TEXAS	-	-	1,051	123	1,051	123
UTAH	-	-	2,960	141	2,960	141
WISCONSIN	18,570	1,505	12,520	690	31,090	2,195
WYOMING	-	-	293	12	293	12
TOTAL	56,687	5,572	77,131	7,383	133,818	12,955

MISSISSIPPI RIVER CATCH, 1964



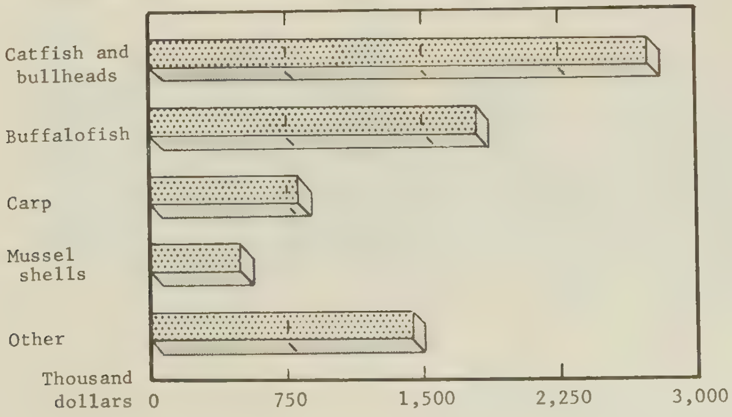
GREAT LAKES AND MISSISSIPPI RIVER CATCH - BY SPECIES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES	11,745	219	-	-	11,745	219
BLUE PIKE	(1)	(1)	-	-	(1)	(1)
BOWFIN	2	(1)	143	4	145	4
BUFFALOFISH	121	15	17,399	1,833	17,520	1,848
BURBOT	238	13	69	1	307	14
CARP	5,280	150	25,938	830	31,218	980
CATFISH AND BULLHEADS	1,530	387	13,574	2,784	15,104	3,171
CHUBS	7,217	1,157	-	-	7,217	1,157
CISCO	9	3	-	-	9	3
CRAPPIE	2	(1)	15	4	17	4
EELS, COMMON	33	7	1	(1)	34	7
GARFISH	(1)	(1)	776	37	776	37
GIZZARD SHAD	11	(1)	-	-	11	(1)
GOLDFISH	159	4	-	-	159	4
LAKE HERRING	6,261	371	-	-	6,261	371
LAKE TROUT	102	67	-	-	102	67
MINNOWS	-	-	2	19	2	19
MOONEYE OR GOLDEYE	(1)	(1)	25	2	25	2
PADDLEFISH	-	-	820	110	820	110
PIKE OR PICKEREL	155	22	93	13	248	35
QUILLBACK	9	(1)	441	20	450	20
SALMON, RED	-	-	74	37	74	37
ROCK BASS	13	2	-	-	13	2
SAUGER	69	6	-	-	69	6
SCULPIN	2	(1)	-	-	2	(1)
SHEEPSHEAD	4,571	79	5,512	345	10,083	424
SMELT	3,468	138	-	-	3,468	138
STURGEON, SHOVELNOSE	5	4	43	6	48	10
SUCKERS	1,212	48	873	22	2,085	70
SUNFISH	12	1	-	-	12	1
TULLIBEE	2,223	67	(1)	(1)	2,223	67
WHITE BASS	1,542	254	72	7	1,614	261
WHITEFISH:						
COMMON	1,423	842	132	52	1,555	894
MENOMINEE	62	13	-	-	62	13
WHITE PERCH	3	(1)	-	-	3	(1)
YELLOW BASS	-	-	1	(1)	1	(1)
YELLOW PERCH	8,303	1,394	279	65	8,582	1,459
YELLOW PIKE	905	309	638	207	1,543	516
UNCLASSIFIED, FOR FOOD	-	-	6	3	6	3
ARTEMIA (BRINE SHRIMP) EGGS	-	-	108	54	108	54
CRAWFISH	-	-	1,987	330	1,987	330
SHRIMP	-	-	17	4	17	4
MUSSEL SHELLS	-	-	7,847	492	7,847	492
PEARLS AND SLUGS	-	-	-	12	-	12
TURTLES:						
BABY	-	-	11	50	11	50
SLIDER	-	-	31	1	31	1
SNAPPER	-	-	154	22	154	22
FROGS	-	-	50	17	50	17
TOTAL	56,687	5,572	77,131	7,383	133,818	12,955

1/ LESS THAN 500 POUNDS OR $500.

VALUE OF MISSISSIPPI RIVER CATCH, 1964



SECTION 10 - HAWAII FISHERIES

The 1964 landings of commercially caught fish and shellfish at ports in the State of Hawaii were 12.7 million pounds valued at $2.8 million to the fishermen. Compared with 1963, this was a gain of about 1.0 million pounds (8 percent) and $168,500 (6 percent). The increase in both volume and value of the catch resulted principally from greater landings of skipjack (9.0 million pounds--up 924,000 pounds) and yellowfin tuna (500,000 pounds--up 115,000 pounds). Other species showing gains were striped marlin, jack crevalle, and bigeye scad. There were slight declines in landings of bigeye tuna, dolphin, and jack mackerel. Tuna, largely skipjack, accounted for 82 percent of the quantity and 67 percent of the value of all fishery items landed in Hawaii.

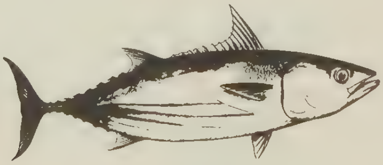
During 1964 the Bureau's Biological Laboratory in Honolulu gathered information on the longline fishery and found that an increasing number of longline vessels were leaving their usual fishing grounds, within 50 miles of the Hawaii Coast, to fish in areas located from 200 to 400 miles south of the islands. They made some of their largest catches of bigeye tuna in these areas.

In 1964, the State of Hawaii gradually curtailed operation of the bait-rearing plant established in 1962, and instead studied growth and depuration of oysters, experimented on tagging the Pacific threadfin and jack mackerel, and cultivating the local and Malaysian shrimp.

Fishery products were landed at six of the eight principal islands that form the State of Hawaii. Oahu led the islands in landings with 10 million pounds--80 percent of the total. The island of Hawaii was next with 1.6 million pounds, followed by Maui with 712,000 pounds. The remainder of the catch was landed at Kauai, Molokai, and Lanai. The 1964 catch was taken by 743 fishermen, who operated 57 vessels of 5 net tons and over, 350 motor boats, and 24 other boats.

The data in this section were assembled and prepared for publication by the Bureau's area office, Honolulu, Hawaii, largely from information collected by the Hawaii Department of Land and Natural Resources, Division of Fish and Game.

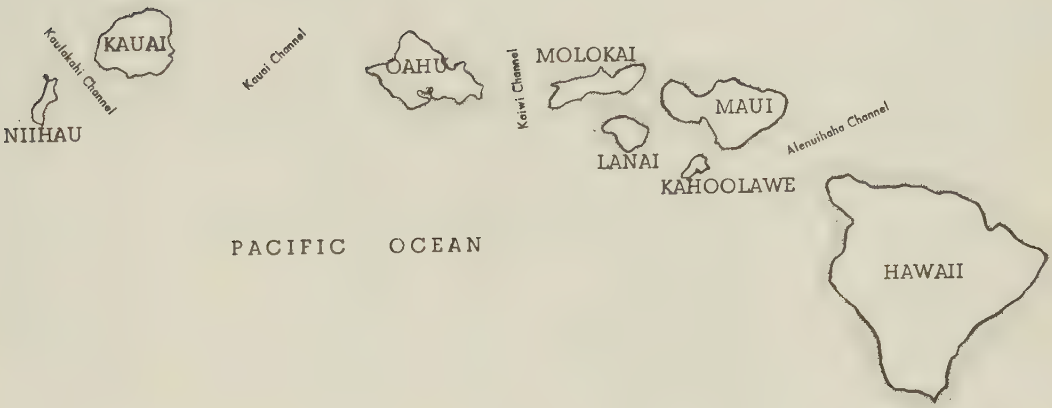
The following tables contain summarized and detailed information on the 1964 operating units and catch by islands of the State of Hawaii. Condensed summary data on the operating units and catch of Hawaii, appearing on the following pages, have been published previously in Current Fishery Statistics No. 3940.



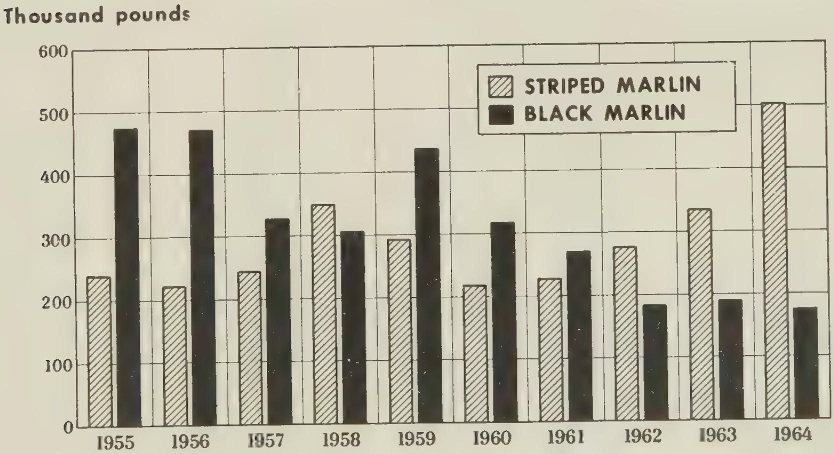
SKIPJACK TUNA

HAWAII FISHERIES

STATE OF HAWAII


KAUAI
Kaulakahi Channel
NIIHAU
Kauai Channel
OAHU
Kaiwi Channel
MOLOKAI
MAUI
LANAI
KAHOOLAWE
Alenuihaha Channel
HAWAII
PACIFIC OCEAN

HAWAII CATCH OF BLACK AND STRIPED MARLIN, 1955-64



HAWAII FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

ISLAND	FISH		SHELLFISH, ETC.		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
HAWAII	1,602	338	12	7	1,614	345
MOLOKAI	15	8	1	2	16	10
OAHU	10,144	2,270	43	23	10,187	2,293
KAUAI	138	54	7	4	145	58
MAUI	706	133	6	6	712	139
LANAI	11	3	(1)	(1)	11	3
TOTAL	12,616	2,806	69	42	12,685	2,848

1/ LESS THAN 500 POUNDS OR $500.

SUMMARY OF OPERATING UNITS, 1964

ITEM	TOTAL
	NUMBER
FISHERMEN:	
ON VESSELS	233
ON BOATS AND SHORE	510
TOTAL	743
VESSELS, MOTOR	57
GROSS TONNAGE	1,722
BOATS:	
MOTOR	350
OTHER	24

NOTE:--DATA ARE NOT AVAILABLE ON THE NUMBER AND SIZE OF GEAR USED IN THE HAWAII FISHERIES. THERE WERE 17 FISHERY WHOLESALING AND MANUFACTURING ESTABLISHMENTS IN THE STATE OF HAWAII IN 1964. PEAK EMPLOYMENT IN THESE PLANTS TOTALED 327 PERSONS.

HAWAII - CATCH BY SPECIES, 1964

SPECIES		TOTAL	
ENGLISH	HAWAIIAN	POUNDS	VALUE
OCEAN CATCH:	FISH		
AMBERJACK	KAHALA	95,639	$27,515
BARRACUDA	KAKU	3,068	665
BARRACUDA, JAPANESE	KAWELEA	6,179	2,463
BIGEYE SCAD	AKULE	160,526	117,261
BONEFISH	OIO	26,048	6,572
CREVALLE:			
BLUE	ULUA OMILU	3,473	1,989
JACK	ULUA	107,912	42,694
DAMSELFISH	KUPIPI	2,753	983
DOLPHIN	MAHIMAHI	85,418	46,561
EELS:			
CONGER	PUHI	3,574	366
MORAY	PUHI	2,596	162
GOATFISHES:			
	KUMU	11,925	12,489
	MALU	3,539	2,096
	MOANO	21,005	12,550
	MOELUA	7,243	4,052
	WEKE	68,487	28,786
	WEKE-ULA	12,847	8,415
MACKEREL, JACK	OPELU	292,262	103,556
MARLIN:			
BLACK	A'U	174,173	47,910
SAILFISH	A'U LEPE	11,275	1,570
SILVER	A'U	5,980	2,141
STRIPED	A'U	501,814	131,595
MILKFISH	AWA	10,775	3,765
MOUNTAIN BASS	AHOLEHOLE	2,756	1,754
MULLET	AMAAMA	14,621	12,321
PARROT FISH	UHU	4,894	1,459
RED BIGEYE	AWEOWEO	2,915	1,159
RUDDERFISH	NENUE	9,643	4,316
RUNNER	LAI	164	37
SARDINE	MAKIAWA	145	20
SEA BASS, BLACK	HAPUUPUU	24,091	9,807
SNAPPER:			
GRAY	UKA	89,779	36,304
PINK	KALIKALI	15,695	8,462
PINK	OPAKAPAKA	105,575	51,077
RED	ULAULA	22,892	18,549
RED	ULAULA KOAE	57,422	52,739

SEE NOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII - CATCH BY SPECIES, 1964 - Continued

SPECIES		TOTAL	
ENGLISH	HAWAIIAN	POUNDS	VALUE
OCEAN CATCH - CONTINUED:	FISH - CONTINUED		
SPOT	A'AWA	1,899	$306
SQUIRRELFISH	UU	15,245	9,919
SURGEON FISH:			
	KALA	27,275	3,818
	MAIKO	1,151	208
	PALANI	8,601	1,806
	PUALU	9,263	1,695
SWORDFISH	A'U	23,733	3,976
TANG:			
CONVICT	MANINI	12,232	5,645
ORANGE SPOT	NAENAE	3,454	358
TENPOUNDER	AWAAWA	8,496	2,241
THREADFIN	MOI	15,658	12,516
TRIGGERFISH	HUMUHUMU	1,928	588
TUNA:			
ALBACORE	AHIPALAHA	9,495	3,107
BIGEYE AND BLUEFIN	AHI	839,485	493,568
LITTLE	KAWAKAWA	34,534	5,835
SKIPJACK	AKU	9,023,599	1,221,698
YELLOWFIN	AHI	500,117	185,486
TOTAL TUNA		10,407,230	1,909,694
WAHOO	ONO	33,083	6,431
UNCLASSIFIED		34,158	11,002
TOTAL FISH		12,572,509	2,774,363
SHELLFISH, ETC.			
CRABS:			
	KONA	9,595	5,102
	KUAHONU	4,087	3,350
	MOALA	2,162	926
	PAPAI	1,559	395
	SAMOAN	15	15
LIMPET	OPIHI	3,822	8,786
LOBSTERS:			
SLIPPER	ULAPAPAPA	10	7
SPINY	ULA	9,846	7,896
OCTOPUS	HEE	7,406	4,196
SEAWEED	LIMU	12,271	2,956
SHRIMP	OPAE	150	108
SQUID	MUHEE	8,704	3,204
TREPANG (SEA CUCUMBER)		234	244
TURTLES	HONU	1,609	321
TOTAL SHELLFISH, ETC.		61,470	37,506
TOTAL OCEAN CATCH		12,633,979	2,811,869
FISH			
POND CATCH: 1/			
BARRACUDA	KAKU	1,485	1,240
BONEFISH	OIO	1,778	814
CREVALLE, JACK	ULUA	648	601
GOATFISH	WEKE	1	(2)
MILKFISH	AWA	12,636	7,362
MOUNTAIN BASS	AHOLEHOLE	2,916	1,112
MULLET	AMAAMA	19,823	18,896
RUNNER	LAI	125	41
SURGEON FISH	PUALU	42	10
TENPOUNDER	AWAAWA	3,251	1,074
THREADFIN	MOI	32	32
UNCLASSIFIED		156	73
TOTAL FISH		42,893	31,255
SHELLFISH, ETC.			
CLAMS, HARD	OLEPE	152	273
CRABS:			
	KUAHONU	2,774	2,083
	MOALA	2,167	866
	PAPAI	1,230	395
	SAMOAN	1,350	1,044
TURTLES	HONU	52	5
TOTAL SHELLFISH, ETC.		7,725	4,666
TOTAL POND CATCH		50,618	35,921
GRAND TOTAL		12,684,597	2,847,790

1/ SALT-WATER. 2/ LESS THAN 50 CENTS.

NOTE:--STATISTICS ON THE CATCH ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS. THE MEAT WEIGHT OF HARD CLAMS AND LIMPETS WAS BASED ON A YIELD OF 25 PERCENT AND 20 PERCENT RESPECTIVELY.

HAWAII - OPERATING UNITS BY ISLAND AND GEAR, 1964

ITEM	HAWAII						
	BAG NETS	POTS AND TRAPS	GILL NETS	LINES			
				HAND	POLE AND LINE	TROLL	LONG OR SET WITH HOOKS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:							
ON VESSELS.	-	-	-	-	22	1	5
ON BOATS AND SHORE. . .	2	5	5	89	4	27	12
TOTAL	2	5	5	89	26	28	17
VESSELS, MOTOR.	-	-	-	-	3	1	2
GROSS TONNAGE	-	-	-	-	121	23	32
BOATS:							
MOTOR	2	3	3	65	3	22	4
OTHER	-	-	-	-	1	-	-

ITEM	HAWAII - CONTINUED					
	LIFT NETS	CAST NETS	SPEARS	BY HAND	POND 1/	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	-	-	-	-	-	28
ON BOATS AND SHORE. . .	18	5	1	3	1	134
TOTAL	18	5	1	3	1	162
VESSELS, MOTOR.	-	-	-	-	-	6
GROSS TONNAGE	-	-	-	-	-	176
BOATS:						
MOTOR	17	1	-	1	-	92
OTHER	-	-	-	-	-	1

ITEM	MOLOKAI					
	GILL NETS	LINES		CAST NETS	SPEARS	BY HAND
		HAND	TROLL			
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE.	32	1	2	1	5	4
BOATS, MOTOR.	10	1	2	-	-	-

ITEM	MOLOKAI - CONTINUED		OAHU			
	POND 1/	TOTAL, EXCLUSIVE OF DUPLICATION	HAUL SEINES	BAG NETS	POTS AND TRAPS	GILL NETS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	-	-	-	9	-	12
ON BOATS AND SHORE. . .	3	42	2	4	23	39
TOTAL	3	42	2	13	23	51
VESSELS, MOTOR.	-	-	-	2	-	4
GROSS TONNAGE	-	-	-	48	-	117
BOATS:						
MOTOR	-	12	2	2	18	28
OTHER	-	-	-	2	-	2

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII - OPERATING UNITS BY ISLAND AND GEAR, 1964 - Continued

ITEM	OAHU - CONTINUED				
	LINES				LIFT NETS
	HAND	POLE AND LINE	TROLL	LONG OR SET WITH HOOKS	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	6	108	5	43	3
ON BOATS AND SHORE. . .	119	3	15	9	11
TOTAL	125	111	20	52	14
VESSELS, MOTOR.	3	12	5	22	1
GROSS TONNAGE	82	562	116	490	18
BOATS:					
MOTOR	98	14	15	8	7
OTHER	-	1	-	-	1

ITEM	OAHU - CONTINUED				
	CAST NETS	SPEARS	BY HAND	POND 1/	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	-	-	-	-	174
ON BOATS AND SHORE. . .	3	3	4	7	186
TOTAL	3	3	4	7	360
VESSELS, MOTOR.	-	-	-	-	46
GROSS TONNAGE	-	-	-	-	1,367
BOATS:					
MOTOR	2	1	-	1	149
OTHER	-	-	-	3	8

ITEM	KAUAI					
	HAUL SEINES	BAG NETS	GILL NETS	LINES		
				HAND	TROLL	LONG OR SET WITH HOOKS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	-	-	-	2	2	-
ON BOATS AND SHORE. . .	3	6	16	30	17	5
TOTAL	3	6	16	32	19	5
VESSELS, MOTOR.	-	-	-	1	1	-
GROSS TONNAGE	-	-	-	9	9	-
BOATS:						
MOTOR	1	-	3	25	15	5
OTHER	2	6	12	1	-	-

ITEM	KAUAI - CONTINUED				MAUI	
	LIFT NETS	CAST NETS	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION	HAUL SEINES	BAG NETS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS.	-	-	-	2	-	-
ON BOATS AND SHORE. . .	5	4	2	54	4	1
TOTAL	5	4	2	56	4	1
VESSELS, MOTOR.	-	-	-	1	-	-
GROSS TONNAGE	-	-	-	9	-	-
BOATS:						
MOTOR	5	3	-	32	2	1
OTHER	-	-	-	15	-	-

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII - OPERATING UNITS BY ISLAND AND GEAR, 1964 - Continued

ITEM	MAUI - CONTINUED				
	POTS AND TRAPS	GILL NETS	LINES		
			HAND	POLE AND LINE	TROLL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	-	-	-	28	1
ON BOATS AND SHORE. . .	3	12	38	-	13
TOTAL	3	12	38	28	14
VESSELS, MOTOR.	-	-	-	3	1
GROSS TONNAGE	-	-	-	150	20
BOATS, MOTOR.	2	7	35	3	12

ITEM	MAUI - CONTINUED			
	LIFT NETS	SPEARS	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS.	-	-	-	29
ON BOATS AND SHORE. . .	13	4	5	76
TOTAL	13	4	5	105
VESSELS, MOTOR.	-	-	-	4
GROSS TONNAGE	-	-	-	170
BOATS, MOTOR.	9	1	-	57

ITEM	LANAI				
	GILL NETS	LINES		CAST NETS	TOTAL, EXCLUSIVE OF DUPLICATION
		HAND	TROLL		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE.	3	11	8	3	18
BOATS, MOTOR.	-	6	7	-	8

1/ SEINES, MISCELLANEOUS NETS, AND BY HAND.

HAWAII - CATCH BY ISLANDS, 1964

SPECIES		HAWAII		MOLOKAI		OAHU	
ENGLISH	HAWAIIAN	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FISH							
OCEAN CATCH:							
AMBERJACK	KAHALA	10,921	$2,434	-	-	60,853	$17,933
BARRACUDA	KAKU	133	13	-	-	2,412	445
BARRACUDA, JAPANESE	KAWELEA	4,241	1,847	-	-	1,797	573
BIGEYE SCAD	AKULE	28,408	19,357	2,806	$2,024	84,297	66,207
BONEFISH	OIO	7,681	1,911	2,780	556	12,997	3,490
CREVALLE:							
BLUE	ULUA OMILU	-	-	-	-	2,999	1,690
JACK	ULUA	8,965	3,136	325	185	89,117	35,078
DAMSELFISH	KUPIPI	113	48	-	-	2,603	916
DOLPHIN	MAHIMAHI	14,486	5,089	25	9	68,190	40,688
EELS:							
CONGER	PUHI	114	37	-	-	3,451	326
MORAY	PUHI	97	13	-	-	2,499	149
GOATFISHES:							
	KUMU	650	601	27	22	10,442	11,342
	MALU	-	-	-	-	3,539	2,096
	MOANO	2,113	1,260	-	-	18,504	11,122
	WEKE	3,281	2,161	740	202	61,834	25,184
	WEKE-ULA	815	629	-	-	11,049	7,547
MACKEREL, JACK	OPELU	145,539	44,007	398	126	85,717	40,158
MARLIN:							
BLACK	A'U	53,743	8,828	-	-	119,918	39,054
SAILFISH	A'U LEPE	1,178	292	-	-	10,097	1,278
SILVER	A'U	722	136	-	-	5,258	2,005
STRIPED	A'U	53,245	14,857	-	-	447,983	116,633
MILKFISH	AWA	3,636	1,323	460	185	5,680	1,989
MOUNTAIN BASS	AHOLEHOLE	195	155	-	-	952	552
MULLET	AMAAMA	429	399	1,414	962	8,702	7,745
PARROT FISH	UHU	89	33	-	-	4,787	1,423
RED BIGEYE	AWEOWEO	978	388	8	2	823	314
RUDDERFISH	NENUE	526	250	-	-	8,279	3,698
RUNNER	LAI	10	2	-	-	57	13
SARDINE	MAKIAWA	-	-	-	-	45	10
SEA BASS, BLACK	HAPUUPUU	792	386	-	-	21,986	8,987
SNAPPER:							
GRAY	UKU	2,463	989	105	23	73,310	29,231
PINK	KALIKALI	910	543	-	-	14,631	7,862
PINK	OPAKAPAKA	8,190	4,219	-	-	66,145	33,212
RED	ULAULA	3,017	2,447	-	-	18,033	15,164
RED	ULAULA KOAE	1,520	1,273	-	-	54,234	50,499
SPOT	A'WA	1,458	250	-	-	413	52
SQUIRRELFISH	UU	5,945	3,697	334	285	5,346	3,899
SURGEON FISH:							
	KALA	29	3	120	20	25,545	3,426
	MAIKO	182	85	-	-	969	123
	PALANI	112	18	-	-	7,972	1,658
	PUALU	-	-	-	-	9,263	1,695
SWORDFISH	A'U	2,039	287	-	-	21,694	3,689
TANG:							
CONVICT	MANINI	1,345	856	627	308	8,598	3,618
ORANGE SPOT	NAENAE	26	6	-	-	3,428	352
TENPOUNDER	AWAAWA	-	-	-	-	8,463	2,233
THREADFIN	MOI	2,167	1,537	2,035	1,628	6,758	6,148
TRIGGERFISH	HUMUHUMU	1,358	319	-	-	570	269
TUNA:							
ALBACORE	AHIPALAHA	657	264	-	-	8,838	2,843
BIGEYE AND BLUEFIN	AHI	144,471	73,608	-	-	694,752	419,906
LITTLE	KAWAKAWA	202	42	882	253	24,316	4,016
SKIPJACK	AKU	954,330	98,807	486	158	7,496,347	1,049,560
YELLOWFIN	AHI	108,674	33,849	-	-	358,535	142,499
TOTAL TUNA		1,208,334	206,570	1,368	411	8,582,788	1,618,824
WAHOO	ONO	9,904	2,059	-	-	15,219	2,512
UNCLASSIFIED		5,974	1,979	33	9	25,200	7,724
TOTAL FISH		1,598,073	336,729	13,605	6,957	10,105,446	2,240,835
SHELLFISH, ETC.							
CRABS:							
	KONA	1,167	687	386	278	1,808	1,245
	KUAHONU	179	72	-	-	3,908	3,278
	MOALA	-	-	-	-	2,162	926
	PAPAI	-	-	-	-	1,558	395
	SAMOAN	-	-	-	-	15	15
LIMPET	OPIHI	1,351	3,008	402	1,014	-	-
LOBSTERS:							
SLIPPER	ULAPAPAPA	-	-	-	-	10	7
SPINY	ULA	370	317	-	-	9,058	7,329

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII - CATCH BY ISLANDS, 1964 - Continued

SPECIES		HAWAII		MOLOKAI		OAHU	
ENGLISH	HAWAIIAN	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SHELLFISH, ETC. - CONTINUED							
OCEAN CATCH - CONTINUED:							
OCTOPUS	HEE	142	$95	447	$266	4,546	$2,435
SQUID	MUHEE	8,540	3,106	-	-	-	-
TREPANG (SEA CUCUMBERS)		-	-	-	-	234	244
TURTLES	HONU	100	20	-	-	509	50
SEAWEED	LIMU	75	50	-	-	11,690	2,338
TOTAL SHELLFISH, ETC.		11,924	7,355	1,235	1,558	35,498	18,262
TOTAL OCEAN CATCH		1,609,997	344,084	14,840	8,515	10,140,944	2,259,097
FISH							
POND CATCH 1/:							
BARRACUDA	KAKU	-	-	195	86	1,290	1,154
BONEFISH	OIO	-	-	254	87	1,524	727
CREVALLE, JACK	ULUA	-	-	81	40	567	561
GOATFISHES	WEKE	-	-	-	-	1	(2)
MILKFISH	AWA	3,584	1,281	-	-	9,052	6,081
MOUNTAIN BASS	AHOLEHOLE	-	-	-	-	2,916	1,112
MULLET	AMAAMA	-	-	685	666	19,138	18,230
RUNNER	LAI	-	-	-	-	125	41
SURGEON FISH	PUALU	-	-	-	-	42	10
TENPOUNDER	AWAAWA	-	-	-	-	3,251	1,074
THREADFIN	MOI	-	-	-	-	32	32
UNCLASSIFIED		-	-	57	28	99	45
TOTAL FISH		3,584	1,281	1,272	907	38,037	29,067
SHELLFISH, ETC.							
CLAMS, HARD	OLEPE	-	-	152	273	-	-
CRABS:							
	KUAHONU	-	-	-	-	2,774	2,083
	MOALA	-	-	-	-	2,167	866
	PAPAI	-	-	-	-	1,230	395
	SAMOAN	-	-	-	-	1,350	1,044
TURTLES	HONU	-	-	-	-	52	5
TOTAL SHELLFISH, ETC.		-	-	152	273	7,573	4,393
TOTAL POND CATCH		3,584	1,281	1,424	1,180	45,610	33,460
GRAND TOTAL		1,613,581	345,365	16,264	9,695	10,186,554	2,292,557

SPECIES		KAUAI		MAUI		LANAI	
ENGLISH	HAWAIIAN	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FISH							
OCEAN CATCH:							
AMBERJACK	KAHALA	19,564	$6,209	4,202	$899	99	$40
BARRACUDA	KAKU	504	202	13	2	6	3
BARRACUDA, JAPANESE	KAWELEA	79	28	62	15	-	-
BIGEYE SCAD	AKULE	21,930	14,854	23,085	14,819	-	-
BONEFISH	OIO	283	75	2,307	540	-	-
CREVALLE:							
BLUE	ULUA OMILU	233	174	241	125	-	-
JACK	ULUA	3,018	1,078	6,108	2,996	379	221
DAMSELFISH	KUPIPI	-	-	3	2	34	17
DOLPHIN	MAHIMAHI	1,210	355	1,507	420	-	-
EELS, CONGER	PUHI	-	-	9	3	-	-
GOATFISHES:							
	KUMU	-	-	806	524	-	-
	MOANO	28	4	360	164	-	-
	MOELUA	-	-	7,192	4,021	51	31
	WEKE	1,244	721	1,388	518	-	-
	WEKE-ULA	864	169	119	70	-	-
MACKEREL, JACK	OPELU	15,006	5,186	45,099	13,899	503	180
MARLIN:							
BLACK	A'U	-	-	512	28	-	-
STRIPED	A'U	338	73	248	32	-	-
MILKFISH	AWA	3	1	996	267	-	-
MOUNTAIN BASS	AHOLEHOLE	414	217	1,180	820	15	10

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII - CATCH BY ISLANDS, 1964 - Continued

SPECIES		KAUAI		MAUI		LANAI	
ENGLISH	HAWAIIAN	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FISH - CONTINUED							
OCEAN CATCH - CONTINUED:							
MULLET	AMAAMA	3,768	$3,002	308	$213	-	-
PARROT FISH	UHU	18	3	-	-	-	-
RED BIGEYE	AWEOWEO	724	302	382	153	-	-
RUDDERFISH	NENUE	758	332	80	36	-	-
RUNNER	LAI	8	2	89	20	-	-
SARDINE	MAKIAWA	-	-	100	10	-	-
SEA BASS, BLACK	HAPUUPUU	430	143	883	291	-	-
SNAPPER:							
GRAY	UKU	6,929	2,689	6,846	3,294	126	$78
PINK	KALIKALI	70	42	84	15	-	-
PINK	OPAKAPAKA	225	60	30,810	13,476	205	110
RED	ULAULA	528	254	1,314	684	-	-
RED	ULAULA KOAE	62	21	1,606	946	-	-
SPOT	A'AWA	-	-	28	4	-	-
SQUIRRELFISH	UU	2,868	1,562	446	274	306	202
SURGEON FISH:							
	KALA	1,516	362	65	7	-	-
	PALANI	-	-	517	130	-	-
TANG, CONVICT	MANINI	1,300	635	272	183	90	45
TENPOUNDER	AWAAWA	29	7	4	1	-	-
THREADFIN	MOI	3,361	2,358	937	659	400	186
TUNA:							
BIGEYE AND BLUEFIN	AHI	262	54	-	-	-	-
LITTLE	KAWAKAWA	3,234	630	4,520	485	1,380	409
SKIPJACK	AKU	7,576	1,543	557,425	69,932	7,435	1,698
YELLOWFIN	AHI	32,314	9,043	494	77	100	18
TOTAL TUNA		43,386	11,270	562,439	70,494	8,915	2,125
WAHOO	ONO	6,929	1,663	1,031	197	-	-
UNCLASSIFIED		689	119	2,158	1,100	104	71
TOTAL FISH		138,316	54,172	705,836	132,351	11,233	3,319
SHELLFISH, ETC.							
CRABS:							
	KONA	3,662	1,878	2,572	1,014	-	-
	PAPAI	1	(2)	-	-	-	-
LIMPET	OPIHI	175	350	1,894	4,414	-	-
LOBSTERS, SPINY	ULA	348	210	70	40	-	-
OCTOPUS	HEE	1,604	1,062	587	298	80	40
SHRIMP	OPAE	-	-	150	108	-	-
SQUID	MUHEE	164	98	-	-	-	-
TURTLES	HONU	-	-	1,000	251	-	-
SEAWEED	LIMU	506	568	-	-	-	-
TOTAL SHELLFISH, ETC.		6,460	4,166	6,273	6,125	80	40
TOTAL OCEAN CATCH		144,776	58,338	712,109	138,476	11,313	3,359
GRAND TOTAL		144,776	58,338	712,109	138,476	11,313	3,359

1/ SALT-WATER.

2/ LESS THAN 50 CENTS.

NOTE:--THE WEIGHT OF MEATS FOR MOLLUSKS IS BASED ON A YIELD OF 25 PERCENT FOR HARD CLAMS AND 20 PERCENT FOR LIMPETS.

HAWAII - CATCH BY GEAR, 1964

SPECIES		HAUL SEINES		BAG NETS	
ENGLISH	HAWAIIAN	POUNDS	VALUE	POUNDS	VALUE
AMBERJACK	KAHALA	10	$5	-	-
BARRACUDA	KAKU	97	60	-	-
BIGEYE SCAD	AKULE	146	88	91,390	$59,045
BONEFISH	OIO	2,419	636	14,578	3,490
CREVALLE, JACK	ULUA	856	723	1,797	1,214
DAMSELFISH	KUPIPI	592	260	-	-
GOATFISHES:					
	KUMU	751	825	-	-
	MOANO	56	22	-	-
	WEKE	11,931	4,678	972	318
	WEKE-ULA	128	85	-	-
MACKEREL, JACK	OPELU	-	-	325	120
MOUNTAIN BASS	AHOLEHOLE	26	18	-	-
MULLET	AMAAMA	469	424	-	-
PARROT FISH	UHU	3,906	1,098	-	-
RED BIGEYE	AWEOWEO	38	7	-	-
RUDDERFISH	NENUE	3,757	2,223	3,486	1,055
RUNNER	LAI	4	1	-	-
SNAPPER:					
GRAY	UKU	253	67	-	-
PINK	KALIKALI	66	8	-	-
SQUIRRELFISH	UU	136	77	-	-
SURGEON FISH:					
	KALA	11,098	1,748	600	151
	MAIKO	314	15	-	-
	PALANI	4,022	748	-	-
	PUALU	5,077	930	57	16
TANG:					
CONVICT	MANINI	2,814	1,481	-	-
ORANGE SPOT	NAENAE	3,017	300	-	-
TENPOUNDER	AWAAWA	64	19	3,000	708
THREADFIN	MOI	710	626	8,552	7,292
UNCLASSIFIED		305	147	303	221
TOTAL		53,062	17,319	125,060	73,630

SPECIES		POTS AND TRAPS		GILL NETS, ANCHOR, SET OR STAKE		LINES	
						POLE & LINE (AND HAND)	
ENGLISH	HAWAIIAN	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
AMBERJACK	KAHALA	1,546	$559	-	-	93,806	$26,894
BARRACUDA	KAKU	13	8	185	$113	754	190
BARRACUDA, JAPANESE	KAWELEA	-	-	35	12	4,926	2,131
BIGEYE SCAD	AKULE	-	-	14,053	9,977	54,637	47,973
BONEFISH	OIO	28	9	1,652	402	5,854	1,672
CREVALLE:							
BLUE	ULAULA OMILU	1,295	697	169	157	2,009	1,135
JACK	ULUA	6,148	3,008	623	437	97,463	36,893
DAMSELFISH	KUPIPI	1,073	283	595	238	248	86
DOLPHIN	MAHIMAHI	-	-	-	-	32,962	14,349
EELS:							
CONGER	PUHI	3,447	327	3	1	108	36
MORAY	PUHI	2,479	147	10	2	107	13
GOATFISHES:							
	KUMU	8,730	9,560	782	588	965	887
	MALU	3,539	2,096	-	-	-	-
	MOANO	18,030	10,923	29	13	2,762	1,522
	MOELUA	-	-	-	-	7,206	4,028
	WEKE	25,441	10,727	6,383	2,590	3,757	2,628
	WEKE-ULA	5,208	3,198	-	-	7,308	5,036
MACKEREL, JACK	OPELU	-	-	-	-	148,280	62,785
MARLIN:							
BLACK	A'U	-	-	-	-	2,424	461
SAILFISH	A'U LEPE	-	-	-	-	104	55
SILVER	A'U	-	-	-	-	114	57
STRIPED	A'U	-	-	-	-	1,058	325
MILKFISH	AWA	1	(1)	5,210	1,735	2,047	741
MOUNTAIN BASS	AHOLEHOLE	-	-	2,173	1,328	168	141
MULLET	AMAAMA	8	6	13,575	11,377	146	143
PARROT FISH	UHU	478	185	24	7	51	23
RED BIGEYE	AWEOWEO	224	98	637	248	1,976	788
RUDDERFISH	NENUE	42	17	363	174	474	218
RUNNER	LAI	-	-	99	27	61	9
SARDINE	MAKIAWA	-	-	-	-	134	17
SEA BASS, BLACK	HAPUUPUU	-	-	-	-	24,091	9,807
SNAPPER:							
GRAY	UKU	373	153	11	4	89,102	36,061
PINK	KALIKALI	4	2	-	-	15,625	8,452
PINK	OPAKAPAKA	472	210	-	-	105,074	50,852
RED	ULAULA	-	-	-	-	22,892	18,549
RED	ULAULA KOAE	-	-	-	-	57,422	52,739

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII - CATCH BY GEAR, 1964 - Continued

SPECIES		POTS AND TRAPS		GILL NETS, ANCHOR, SET OR STAKE		LINES POLE & LINE (AND HAND)	
ENGLISH	HAWAIIAN	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SPOT	A'AWA	21	$5	8	$3	1,870	$298
SQUIRRELFISH	UU	2,211	1,647	281	188	12,452	7,922
SURGEON FISH:							
	KALA	11,174	708	1,129	187	137	31
	MAIKO	17	1	648	110	-	-
	PALANI	3,228	697	281	76	429	71
	PUALU	2,367	421	-	-	1,285	223
SWORDFISH	A'U	-	-	-	-	212	53
TANG:							
CONVICT	MANINI	4,326	1,348	296	189	11	6
ORANGE SPOT	NAENAE	411	52	-	-	-	-
TENPOUNDER	AWAAWA	12	4	120	35	5,300	1,475
THREADFIN	MOI	2	2	4,283	3,084	345	264
TRIGGERFISH	HUMUHUMU	570	268	-	-	1,358	320
TUNA:							
BIGEYE AND BLUEFIN	AHI	-	-	-	-	3,541	554
LITTLE	KAWAKAWA	-	-	-	-	31,714	5,214
SKIPJACK	AKU	-	-	-	-	9,014,098	1,219,925
YELLOWFIN	AHI	-	-	-	-	188,533	35,211
WAHOO	ONO	-	-	-	-	13,851	3,184
UNCLASSIFIED		4,198	1,486	666	502	18,521	7,422
CRABS:							
	KONA	30	24	-	-	-	-
	KUAHONU	3,998	3,314	-	-	-	-
	MOALA	2,138	913	-	-	-	-
	PAPAI	20	13	1	(1)	-	-
LOBSTERS:							
SLIPPER	ULAPAPAPA	10	7	-	-	-	-
SPINY	ULA	3,826	2,988	5,495	4,471	310	287
OCTOPUS	HEE	3,106	1,533	4	3	198	96
SQUID	MUHEE	-	-	-	-	8,704	3,204
TURTLES	HONU	-	-	344	55	-	-
TOTAL		120,244	57,644	60,167	38,333	10,088,984	1,673,456

SPECIES		LINES - CONTINUED TROLL		LINES - CONTINUED LONG OR SET WITH HOOKS		LIFT NETS	
ENGLISH	HAWAIIAN	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
AMBERJACK	KAHALA	277	$57	-	-	-	-
BARRACUDA	KAKU	188	10	1,831	$284	-	-
BONEFISH	OIO	-	-	24	11	-	-
CREVALLE, JACK	ULUA	590	203	159	78	30	$12
DOLPHIN	MAHIMAHI	4,271	1,172	48,185	31,040	-	-
GOATFISHES:							
	KUMU	-	-	-	-	13	7
	MOANO	-	-	-	-	79	43
	WEKE	-	-	-	-	6	2
MACKEREL, JACK	OPELU	-	-	-	-	143,629	40,633
MARLIN:							
BLACK	A'U	38,907	5,063	132,842	42,386	-	-
SAILFISH	A'U LEPE	-	-	11,171	1,515	-	-
SILVER	A'U	-	-	5,866	2,084	-	-
STRIPED	A'U	1,764	172	498,992	131,098	-	-
SNAPPER:							
GRAY	UKU	-	-	-	-	9	4
PINK	OPAKAPAKA	29	15	-	-	-	-
SQUIRRELFISH	UU	-	-	-	-	85	47
SURGEON FISH	PALANI	-	-	-	-	17	4
SWORDFISH	A'U	-	-	23,521	3,923	-	-
TANG, CONVICT	MANINI	-	-	-	-	15	9
TUNA:							
ALBACORE	AHIPALAHA	-	-	9,495	3,107	-	-
BIGEYE AND BLUEFIN	AHI	258	39	835,686	492,975	-	-
LITTLE	KAWAKAWA	2,820	621	-	-	-	-
SKIPJACK	AKU	9,501	1,773	-	-	-	-
YELLOWFIN	AHI	18,902	4,628	292,682	145,647	-	-
WAHOO	ONO	4,325	620	14,907	2,627	-	-
UNCLASSIFIED		353	11	8,035	538	82	19
CRABS:							
	KONA	-	-	-	-	9,565	5,078
	KUAHONU	-	-	-	-	89	36
	MOALA	-	-	-	-	24	13
	PAPAI	-	-	-	-	1,538	382
	SAMOAN	-	-	-	-	15	15
TOTAL		82,185	14,384	1,883,396	857,313	155,196	46,304

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII - CATCH BY GEAR, 1964 - Continued

SPECIES		CAST NETS		SPEARS		BY HAND	
ENGLISH	HAWAIIAN	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BARRACUDA, JAPANESE	KAWELEA	9	$4	-	-	-	-
BONEFISH	OIO	3	2	-	-	-	-
CREVALLE, JACK	ULUA	4	2	-	-	-	-
GOATFISHES:							
	KUMU	1	1	-	-	-	-
	WEKE	50	24	-	-	-	-
MILKFISH	AWA	210	88	-	-	-	-
MOUNTAIN BASS	AHOLEHOLE	165	88	-	-	-	-
MULLET	AMAAMA	55	44	-	-	-	-
PARROT FISH	UHU	24	7	-	-	-	-
RUDDERFISH	NENUE	196	52	-	-	-	-
SQUIRRELFISH	UU	20	13	-	-	-	-
SURGEON FISH:							
	KALA	14	2	-	-	-	-
	MAIKO	71	32	-	-	-	-
TANG, CONVICT	MANINI	3,714	1,933	-	-	-	-
THREADFIN	MOI	531	242	-	-	-	-
UNCLASSIFIED		116	67	-	-	-	-
LIMPET	OPIHI	-	-	-	-	3,822	$8,786
LOBSTER, SPINY	ULA	-	-	-	-	205	141
OCTOPUS	HEE	30	24	4,017	$2,524	-	-
SEAWEED	LIMU	-	-	-	-	12,271	2,956
TOTAL		5,213	2,625	4,017	2,524	16,298	11,883

SPECIES		NETS, UNCLASSIFIED		OTHER GEAR		VARIOUS GEAR, FISH POND	
ENGLISH	HAWAIIAN	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BARRACUDA	KAKU	-	-	-	-	1,485	$1,240
BARRACUDA, JAPANESE	KAWELEA	1,209	$316	-	-	-	-
BIGEYE SCAD	AKULE	300	178	-	-	-	-
BONEFISH	OIO	1,490	350	-	-	1,778	814
CREVALLE, JACK	ULUA	242	124	-	-	648	601
DAMSEL FISH	KUPIPI	245	116	-	-	-	-
EELS, CONGER	PUHI	-	-	16	$2	-	-
GOATFISHES:							
	KUMU	683	621	-	-	-	-
	MOANO	49	27	-	-	-	-
	MOELUA	37	24	-	-	-	-
	WEKE	19,947	7,819	-	-	1	(1)
	WEKE-ULA	203	96	-	-	-	-
MACKEREL, JACK	OPELU	28	18	-	-	-	-
MILKFISH	AWA	3,307	1,201	-	-	12,636	7,362
MOUNTAIN BASS	AHOLEHOLE	224	179	-	-	2,916	1,112
MULLET	AMAAMA	368	327	-	-	19,823	18,896
PARROT FISH	UHU	411	139	-	-	-	-
RED BIGEYE	AWEOWEO	40	18	-	-	-	-
RUDDERFISH	NENUE	1,325	577	-	-	-	-
RUNNER	LAI	-	-	-	-	125	41
SARDINE	MAKIAWA	11	3	-	-	-	-
SNAPPER, GRAY	UKU	31	15	-	-	-	-
SQUIRRELFISH	UU	60	25	-	-	-	-
SURGEON FISH:							
	KALA	3,123	991	-	-	-	-
	MAIKO	101	50	-	-	-	-
	PALANI	624	210	-	-	-	-
	PUALU	477	105	-	-	42	10
TANG:							
CONVICT	MANINI	1,056	679	-	-	-	-
ORANGE SPOT	NAENAE	26	6	-	-	-	-
TENPOUNDER	AWAAWA	-	-	-	-	3,251	1,074
THREADFIN	MOI	1,235	1,006	-	-	32	32
UNCLASSIFIED		1,579	589	-	-	156	73
CLAMS, HARD	OLEPE	-	-	-	-	152	273
CRABS:							
	KUAHONU	-	-	-	-	2,774	2,083
	MOALA	-	-	-	-	2,167	866
	PAPAI	-	-	-	-	1,230	395
	SAMOAN	-	-	-	-	1,350	1,044
LOBSTERS, SPINY	ULA	10	9	-	-	-	-
OCTOPUS	HEE	51	16	-	-	-	-
SHRIMP	OPAE	150	108	-	-	-	-
TREPANG (SEA CUCUMBER)		205	216	29	28	-	-
TURTLES	HONU	-	-	1,265	266	52	5
TOTAL		38,847	16,158	1,310	296	50,618	35,921

1/ LESS THAN 50 CENTS.

NOTE:--THE WEIGHT OF MEATS FOR MOLLUSKS IS BASED ON A YIELD OF 25 PERCENT FOR HARD CLAMS AND 20 PERCENT FOR LIMPETS.

SECTION 11 - PUERTO RICO FISHERIES

The Puerto Rico catch is not included in the U.S. catch tables in the General Review or Review of Certain Major Fisheries Sections.

In 1964, the catch was 58.5 million pounds valued at $7.5 million to the fishermen--a gain of 12.2 million pounds and $1.9 million compared with the previous year. Tuna landings, the largest on record, accounted principally for the increase. The tuna catch of 48.4 million pounds valued at $5.0 million was 83 percent of the volume and 66 percent of the value of the Puerto Rico landings.

Tuna landed by U.S. fishermen in Puerto Rico were caught only in the Pacific Ocean until 1962. In that year, 9 percent of the tuna catch was taken in the Atlantic Ocean. Subsequently, in 1963 and 1964, significant quantities of tuna (13 and 22 percent, respectively) were caught in the Atlantic.

The catch by local fishermen, consisting chiefly of marine fish, increased from 9.3 million pounds in 1963 to 10.1 million in 1964. Fishermen used various gear--mainly gill nets, haul seines, hooks (hand, troll, and long or set lines), cast nets, fish pots, and weirs.

PUERTO RICO CATCH, 1953-64

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	TUNA							
	BLUEFIN		SKIPJACK		YELLOWFIN		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1953.	-	-	(1)	(1)	(1)	(1)	2,704	(1)
1954.	-	-	(1)	(1)	(1)	(1)	6,388	(1)
1955.	-	-	(1)	(1)	(1)	(1)	9,549	(1)
1956.	-	-	(1)	(1)	(1)	(1)	12,000	(1)
1957.	-	-	(1)	(1)	(1)	(1)	18,393	(1)
1958.	-	-	(1)	(1)	(1)	(1)	16,652	(1)
1959.	-	-	(1)	(1)	(1)	(1)	22,090	(1)
1960.	-	-	5,692	(1)	15,218	(1)	20,910	(1)
1961.	-	-	10,392	(1)	20,658	(1)	31,050	(1)
1962.	1,676	(1)	20,086	(1)	7,028	(1)	28,790	(1)
1963 3/	2,494	254	30,454	2,966	4,078	500	37,026	3,720
1964.	4,324	476	30,447	2,816	13,622	1,669	48,393	4,961

YEAR	OTHER							
	FRESH-WATER FISH		UNCLASSIFIED FISH		CRUSTACEANS		MOLLUSKS	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1953.	441	(1)	4,409	(1)	441	(1)	(2)	(1)
1954.	441	(1)	4,630	(1)	441	(1)	(2)	(1)
1955.	441	(1)	4,630	(1)	661	(1)	(2)	(1)
1956.	441	(1)	4,850	(1)	661	(1)	(2)	(1)
1957.	441	(1)	4,850	(1)	661	(1)	(2)	(1)
1958.	441	(1)	5,071	(1)	661	(1)	(2)	(1)
1959.	441	(1)	5,291	(1)	661	(1)	(2)	(1)
1960.	441	(1)	5,512	(1)	661	(1)	(2)	(1)
1961.	441	(1)	5,952	(1)	661	(1)	(2)	(1)
1962.	441	(1)	6,614	(1)	661	(1)	(2)	(1)
1963 3/	441	88	7,496	1,357	1,102	431	(2)	-
1964.	441	97	8,378	1,843	1,102	551	(2)	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PUERTO RICO CATCH, 1953-64 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	OTHER - CONTINUED				GRAND TOTAL	
	MISCELLANEOUS SHELLFISH, ETC.		TOTAL			
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1953.	(2)	(1)	5,291	(1)	7,995	(1)
1954.	(2)	(1)	5,512	(1)	11,900	(1)
1955.	(2)	(1)	5,732	(1)	15,281	(1)
1956.	(2)	(1)	5,952	(1)	17,952	(1)
1957.	(2)	(1)	5,952	(1)	24,345	(1)
1958.	(2)	(1)	6,173	(1)	22,825	(1)
1959.	(2)	(1)	6,393	(1)	28,483	(1)
1960.	220	(1)	6,834	(1)	27,744	(1)
1961.	220	(1)	7,274	(1)	38,324	(1)
1962.	(2)	(1)	7,716	(1)	36,506	(1)
1963 3/	220	66	9,259	1,942	46,285	5,662
1964.	220	66	10,141	2,557	58,534	7,518

1/ NOT AVAILABLE.

2/ NEGLIGIBLE.

3/ THERE WAS AN ADDITIONAL CATCH OF BLUEFIN (640,000 POUNDS) AND SKIPJACK (596,000 POUNDS) TUNA LANDED AT U. S. ATLANTIC COAST PORTS AND TRANSHIPPED TO PUERTO RICO.

NOTE:--DATA ON THE PUERTO RICO CATCH BY LOCAL FISHERMEN ARE FROM THE YEARBOOK OF FISHERY STATISTICS (VARIOUS YEARS), FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. METRIC TONS HAVE BEEN CONVERTED TO POUNDS BY MULTIPLYING BY 2,204.6. DATA ON TUNA LANDINGS IN PUERTO RICO BY U. S. FISHERMEN WERE OBTAINED BY THE BUREAU.

PUERTO RICO TUNA CATCH ATLANTIC AND PACIFIC OCEANS, 1953-64

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

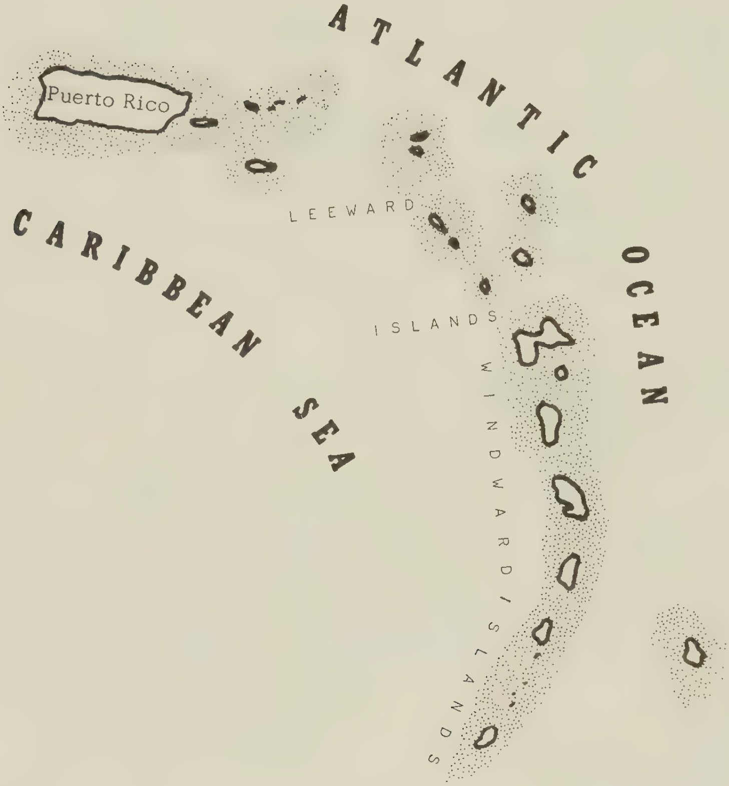
YEAR	BLUEFIN	SKIPJACK		YELLOWFIN	TOTAL		GRAND TOTAL
	ATLANTIC	ATLANTIC	PACIFIC	PACIFIC	ATLANTIC	PACIFIC	
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1953.	-	-	(1)	(1)	-	2,704	2,704
1954.	-	-	(1)	(1)	-	6,388	6,388
1955.	-	-	(1)	(1)	-	9,549	9,549
1956.	-	-	(1)	(1)	-	12,000	12,000
1957.	-	-	(1)	(1)	-	18,393	18,393
1958.	-	-	(1)	(1)	-	16,652	16,652
1959.	-	-	(1)	(1)	-	22,090	22,090
1960.	-	-	5,692	15,218	-	20,910	20,910
1961.	-	-	10,392	20,658	-	31,050	31,050
1962.	1,676	936	19,150	7,028	2,612	26,178	28,790
1963 2/	2,494	2,326	28,128	4,078	4,820	32,206	37,026
1964.	4,324	6,508	23,939	13,622	10,832	37,561	48,393

1/ NOT AVAILABLE.

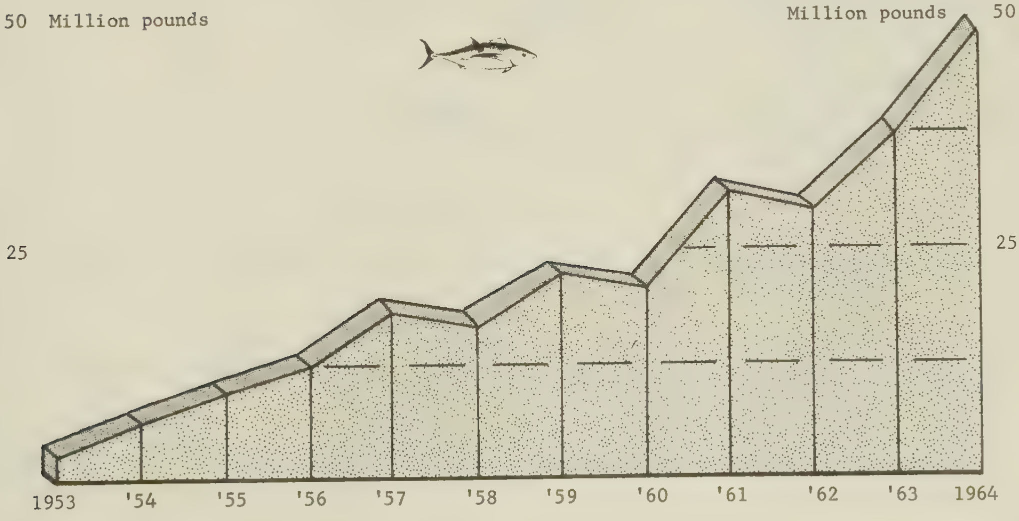
2/ THERE WAS AN ADDITIONAL CATCH OF BLUEFIN (640,000 POUNDS) AND SKIPJACK (596,000 POUNDS) TUNA LANDED AT U. S. ATLANTIC COAST PORTS AND TRANSHIPPED TO PUERTO RICO.

PUERTO RICO FISHERIES

PUERTO RICO


ATLANTIC OCEAN
Puerto Rico
CARIBBEAN SEA
LEEWARD ISLANDS
WINDWARD ISLANDS

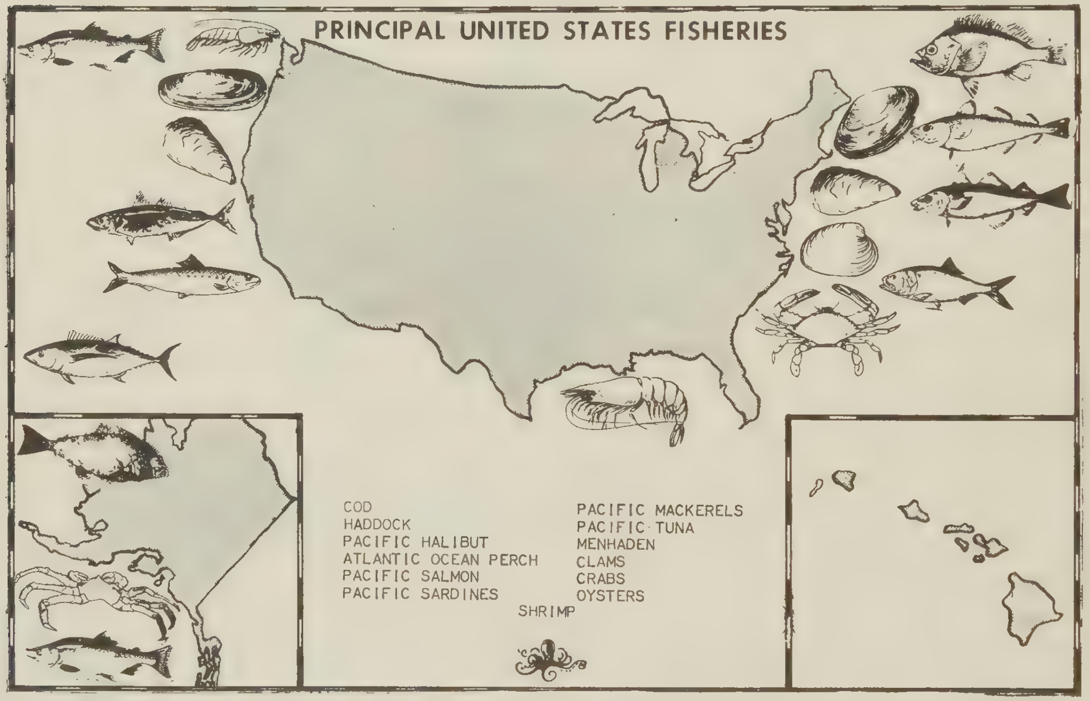
PUERTO RICO TUNA CATCH, 1953–64



SECTION 12

REVIEW OF CERTAIN MAJOR FISHERIES

In this Section of the Digest there are complete data on the catch of certain major species of fish and shellfish taken on a commercial scale in the United States. Additional information is presented on the operating units in the menhaden purse seine, salmon purse seine and troll, the shrimp and fish otter trawl, and the tuna fisheries. Although the data on catch are included in the detailed catch tables of the various States, they have been repeated in individual fishery tables in this portion of the report to provide readers with a single source of catch data for cod, haddock, halibut, Pacific mackerel, jack mackerel, menhaden, Atlantic ocean perch, salmon, tuna, oysters, clams, crabs, and shrimp. Most of the above species are taken by several types of fishing gear. Because of this, the casual reader of the Digest often experiences difficulty in locating complete data on the catch of the species in individual State catch tables. The information contained in this Section includes the volume and value of the catch by individual types of gear and by States and districts.


PRINCIPAL UNITED STATES FISHERIES
COD
HADDOCK
PACIFIC HALIBUT
ATLANTIC OCEAN PERCH
PACIFIC SALMON
PACIFIC SARDINES
PACIFIC MACKERELS
PACIFIC TUNA
MENHADEN
CLAMS
CRABS
OYSTERS
SHRIMP

U. S. COD FISHERY

U. S. fishermen landed 45.2 million pounds of cod valued at $3.0 million--a decline of 3.4 million pounds and $416,000 compared with 1963.

Otter trawls accounted for 88 percent of the catch; lines, 9 percent; and gill nets, 3 percent. A negligible amount was taken in pound nets, floating traps, and dredges.

Landings at Massachusetts ports (34.8 million pounds) accounted for 77 percent of the total catch. The State of Washington was next with 6.2 million pounds, followed by Maine with 2.4 million. The remaining catch was landed in nine other Atlantic and Pacific Coast States.

SUMMARY OF COD CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	OTTER TRAWLS		POUND NETS		FLOATING TRAPS	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:						
MAINE	1,362	63	-	-	-	-
MASSACHUSETTS	31,176	2,137	2	(1)	14	1
RHODE ISLAND	372	29	-	-	25	2
CONNECTICUT	135	11	-	-	-	-
TOTAL	33,045	2,240	2	(1)	39	3
MIDDLE ATLANTIC:						
NEW YORK	258	36	-	-	-	-
NEW JERSEY	14	2	-	-	-	-
TOTAL	272	38	-	-	-	-
CHESAPEAKE:						
MARYLAND	2	(1)	-	-	-	-
VIRGINIA	2	(1)	-	-	-	-
TOTAL	4	(1)	-	-	-	-
PACIFIC:						
WASHINGTON	6,212	341	-	-	-	-
OREGON	201	10	-	-	-	-
TOTAL	6,413	351	-	-	-	-
GRAND TOTAL	39,734	2,629	2	(1)	39	3

AREA AND STATE	GILL NETS		LINES			
			HAND		TROLL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:						
MAINE	510	30	232	6	-	-
NEW HAMPSHIRE	-	-	40	3	-	-
MASSACHUSETTS	627	41	1,645	91	-	-
RHODE ISLAND	-	-	46	4	-	-
CONNECTICUT	-	-	12	1	-	-
TOTAL	1,137	71	1,975	105	-	-
MIDDLE ATLANTIC:						
NEW YORK	-	-	13	2	-	-
NEW JERSEY	(1)	(1)	1	(1)	-	-
TOTAL	(1)	(1)	14	2	-	-
PACIFIC, WASHINGTON	(1)	(1)	-	-	1	(1)
GRAND TOTAL	1,137	71	1,989	107	1	(1)

AREA AND STATE	LINES - CONTINUED		DREDGES		TOTAL	
	LONG OR SET WITH HOOKS					
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:						
MAINE	296	8	-	-	2,400	107
NEW HAMPSHIRE	20	1	-	-	60	4
MASSACHUSETTS	1,337	113	1	(1)	34,802	2,383
RHODE ISLAND	1	(1)	-	-	444	35
CONNECTICUT	-	-	-	-	147	12
TOTAL	1,654	122	1	(1)	37,853	2,541
MIDDLE ATLANTIC:						
NEW YORK	245	34	-	-	516	72
NEW JERSEY	268	43	-	-	283	45
DELAWARE	53	6	-	-	53	6
TOTAL	566	83	-	-	852	123
CHESAPEAKE:						
MARYLAND	11	2	-	-	13	2
VIRGINIA	26	3	-	-	28	3
TOTAL	37	5	-	-	41	5
PACIFIC:						
WASHINGTON	-	-	-	-	6,213	341
OREGON	-	-	-	-	201	10
TOTAL	-	-	-	-	6,414	351
GRAND TOTAL	2,257	210	1	(1)	45,160	3,020

1/ LESS THAN 500 POUNDS OR $500.

ATLANTIC COAST HADDOCK FISHERY

The commercial catch of haddock was 133.5 million pounds valued at $11.8 million--an increase of 9.5 million pounds and $140,000 compared with the previous year. The average price paid for haddock decreased from 9.4 cents per pound in 1963 to 8.9 cents in 1964.

Haddock landings at Massachusetts ports (comprising 98 percent of the catch) were 130.4 million pounds--8 percent more than in 1963. The catch by otter trawls was 97 percent of the landings, while the remaining 3 percent was taken by gill nets, lines, and dredges.

About 86 percent of the catch was taken from waters off New England--mainly on Georges South Channel. Waters off Nova Scotia yielded nearly all the remaining 14 percent.

SUMMARY OF HADDOCK CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	OTTER TRAWLS		GILL NETS		LINES	
					HAND	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:						
MAINE.	2,676	238	86	7	13	1
MASSACHUSETTS.	127,100	11,224	273	24	269	22
RHODE ISLAND	68	5	-	-	-	-
CONNECTICUT.	6	(1)	-	-	-	-
TOTAL.	129,850	11,467	359	31	282	23
MIDDLE ATLANTIC:						
NEW YORK	47	6	-	-	-	-
NEW JERSEY	1	(1)	-	-	-	-
TOTAL.	48	6	-	-	-	-
GRAND TOTAL. . . .	129,898	11,473	359	31	282	23

AREA AND STATE	LINES - CONTINUED		DREDGES		TOTAL	
	LONG OR SET WITH HOOKS					
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:						
MAINE.	173	14	-	-	2,948	260
NEW HAMPSHIRE.	55	6	-	-	55	6
MASSACHUSETTS.	2,729	298	2	(1)	130,373	11,568
RHODE ISLAND	-	-	-	-	68	5
CONNECTICUT.	-	-	-	-	6	(1)
TOTAL.	2,957	318	2	(1)	133,450	11,839
MIDDLE ATLANTIC:						
NEW YORK	-	-	-	-	47	6
NEW JERSEY	-	-	-	-	1	(1)
TOTAL.	-	-	-	-	48	6
GRAND TOTAL. . . .	2,957	318	2	(1)	133,498	11,845

1/ LESS THAN $500.

PACIFIC COAST HALIBUT FISHERY

Halibut landings by the combined United States and Canadian fleets were 59.9 million pounds (landed weight)--11.5 million pounds less than in 1963 and 15.2 million below the 1962 record. U. S. fishermen captured 26.3 million pounds (44 percent) of the total and received nearly $6 million for their catch--$959,000 less than in 1963. The U. S. fleet operating out of Pacific Coast ports numbered 210 vessels, 109 less than in the previous year. Canadian fishermen took 33.6 million pounds, a decline of 3.5 million from 1963.

The catch limit of 34.0 million pounds set by the International Pacific Halibut Commission for Area 3A was unchanged from 1963. The catch limit for Area 2, however, was lowered 25.0 million pounds, and a limit of 4.0 million pounds was set, for the first time, in Area 3B South. There was no catch limit imposed in Area 1 and Area 3B North. In Area 3B North Triangle, however, there was a catch limit of 6.4 million pounds, compared with 11.0 million in 1963.

Data on the landings of halibut in the following tables represent the dressed weight of fish, i.e., the weight by which the quota is determined. The dressed weight of halibut can be converted to round weight by multiplying by 1.33. Halibut landed in Canada by vessels of U. S. registry is credited to Alaska.

SUMMARY OF U. S. HALIBUT FLEET OPERATING UNITS, 1964

ITEM	WASHINGTON AND OREGON FLEET	ALASKA FLEET	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER
REGULAR HALIBUT VESSELS:			
NUMBER.	92	179	210
GROSS TONNAGE	4,375	6,218	7,536
CREW.	534	794	966
SKATES OF LINES	3,906	6,203	7,283
REGULAR HALIBUT BOATS:			
NUMBER.	-	21	21
CREW.	-	36	36
SKATES OF LINES	-	126	126
BOATS PRIMARILY IN OTHER FISHERIES BUT LANDING SMALL FARES OF HALIBUT 1/:			
NUMBER.	-	39	39
CREW.	-	58	58
SKATES OF LINES	-	195	195

1/ DOES NOT INCLUDE TROLLERS OR OTHER BOATS CATCHING HALIBUT INCIDENTAL TO OTHER FISHING OPERATIONS.
NOTE:--U. S. VESSELS LANDING HALIBUT AT PRINCE RUPERT, B. C., HAVE BEEN INCLUDED WITH THOSE LANDING IN ALASKA.

CATCH BY U. S. HALIBUT FLEET, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	LANDED IN						TOTAL	
	WASHINGTON AND OREGON		BRITISH COLUMBIA		ALASKA			
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
HALIBUT	9,238	2,349	562	134	16,549	3,434	26,349	5,917
SABLEFISH	1,646	366	-	-	1,809	289	3,455	655
LINGCOD	15	1	-	-	-	-	15	1
ROCKFISHES.	72	3	-	-	8	1	80	4
TOTAL.	10,971	2,719	562	134	18,366	3,724	29,899	6,577

NOTE:--IN ADDITION THERE WERE APPROXIMATELY 30,000 POUNDS OF "NORTHERN" HALIBUT LANDED IN CALIFORNIA. MOST OF THIS CATCH WAS INCLUDED UNDER "CALIFORNIA HALIBUT" AND "UNCLASSIFIED FLOUNDERS". LANDINGS OF HALIBUT LIVERS AND VISCERA DURING 1964 TOTALED 115,779 POUNDS VALUED AT $5,420. THE QUANTITIES SHOWN ABOVE REPRESENT DRESSED WEIGHT OF FISH. TO CONVERT TO ROUND WEIGHT, MULTIPLY THE WEIGHT OF HALIBUT BY 1.33 AND OTHER SPECIES BY 1.43.

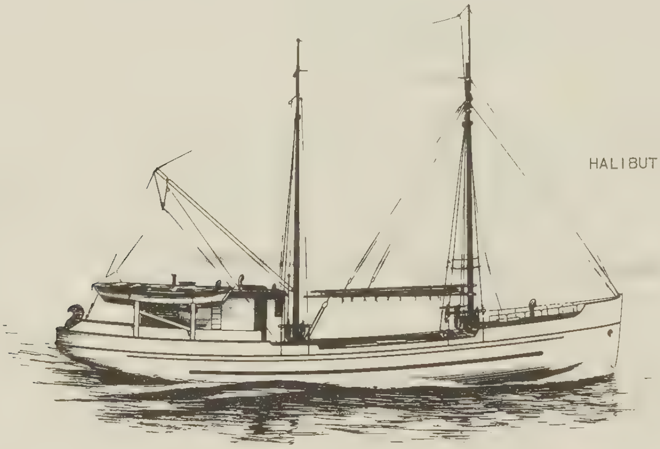
SUMMARY OF UNITED STATES AND CANADIAN HALIBUT CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

FLEET CLASSIFICATION	LANDED IN						TOTAL	
	WASHINGTON AND OREGON		BRITISH COLUMBIA		ALASKA			
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
UNITED STATES FLEET 1/. . .	9,238	2,349	562	134	16,549	3,434	26,349	5,917
BRITISH COLUMBIA FLEET. . .	2,814	696	25,703	6,400	5,071	966	33,588	8,062
TOTAL	12,052	3,045	26,265	6,534	21,620	4,400	59,937	13,979

1/ IN ADDITION THERE WERE APPROXIMATELY 30,000 POUNDS OF "NORTHERN" HALIBUT LANDED IN CALIFORNIA. MOST OF THIS CATCH WAS INCLUDED UNDER "CALIFORNIA HALIBUT" AND "UNCLASSIFIED FLOUNDERS".

NOTE:--HALIBUT STATISTICS IN THESE TABLES WERE COMPILED FROM DATA COLLECTED BY THE INTERNATIONAL PACIFIC HALIBUT COMMISSION. STATISTICS FOR OTHER SPECIES WERE FURNISHED BY THE STATES.



HALIBUT SCHOONER

ATLANTIC OCEAN PERCH FISHERY, 1964

The catch of Atlantic ocean perch was 89.3 million pounds valued at $3.8 million--a decline of 19.0 million pounds (18 percent) and $1.4 million (27 percent) compared with the previous year. The catch, which was the smallest since 1940, was 169.1 million pounds less than the record landings of 1951.

Maine and Massachusetts otter trawlers accounted for almost the entire catch, with only a negligible amount taken by longlines. Maine landings of 59 million pounds valued at $2.5 million accounted for 66 percent of both volume and value.

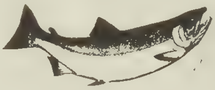
Of the total catch, 34.5 million pounds (39 percent) were taken from the Nova Scotia banks. Next was the Gulf of St. Lawrence with 27.2 million pounds (30 percent), followed by the New England coast, 17.3 million (19 percent); and the Grand Bank, 10.3 million (12 percent).

REVIEW OF CERTAIN MAJOR FISHERIES

PACIFIC COAST SALMON FISHERY

The commercial catch of salmon in the Pacific Coast States was 352.2 million pounds valued at $56.0 million--a gain of 58.1 million pounds (20 percent) and $6.9 million (14 percent) compared with 1963. Chiefly responsible for the increase were Alaska landings of 311.6 million pounds-- 88.6 million (40 percent) more than in the previous year. The Alaska catch of pink (162.3 million pounds), red (54.1 million), and chum salmon (62.7 million pounds) was 79 percent of the total Pacific Coast salmon production. The Washington salmon catch of 21.3 million pounds declined 61 percent, but landings in Oregon (9.9 million) and California (9.5 million) increased 19 and 21 percent, respectively, compared with 1963.

Purse seines, the most important gear used in taking salmon, accounted for 198.6 million pounds (56 percent) of the total catch. Gill nets were second with 117.5 million pounds (33 percent). The remainder was taken by lines, floating traps, reef nets, pound nets, haul seines, dip nets, fish wheels, and otter trawls.



SUMMARY OF PACIFIC COAST SALMON PURSE SEINE OPERATING UNITS, 1964

ITEM	ALASKA 1/	WASHINGTON	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER
FISHERMEN:			
ON VESSELS	5,033	1,459	5,718
ON BOATS AND SHORE	926	8	934
TOTAL	5,959	1,467	6,652
VESSELS, MOTOR:			
5 - 9 TONS	111	3	114
10 - 19 TONS	345	16	356
20 - 29 TONS	166	39	178
30 - 39 TONS	125	62	150
40 - 49 TONS	103	66	134
50 - 59 TONS	25	21	37
60 - 69 TONS	2	3	4
70 - 79 TONS	1	1	2
80 - 89 TONS	1	1	1
110 - 119 TONS	2	-	2
130 - 139 TONS	1	-	1
TOTAL VESSELS	882	212	979
TOTAL GROSS TONNAGE	20,480	7,800	24,062
BOATS, MOTOR	1,750	216	1,921
GEAR:			
NUMBER	1,340	214	1,439
LENGTH, YARDS	576,000	114,320	633,920

1/ INCLUDES SOME HAUL SEINES.

NOTE:--PURSE SEINE OPERATING UNITS WERE CONFINED TO ALASKA AND WASHINGTON.

SUMMARY OF PACIFIC COAST SALMON TROLL LINE OPERATING UNITS, 1964

ITEM	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	1,016	836	689	1,735	3,685
ON BOATS AND SHORE. . . .	700	565	380	1,440	2,997
TOTAL	1,716	1,401	1,069	3,175	6,682
VESSELS, MOTOR					
5 - 9 TONS.	164	160	95	118	487
10 - 19 TONS.	256	306	239	430	1,062
20 - 29 TONS.	60	81	59	155	292
30 - 39 TONS.	18	28	15	60	97
40 - 49 TONS.	7	1	3	9	18
50 - 59 TONS.	1	1	-	2	4
60 - 69 TONS.	1	-	-	1	2
70 - 79 TONS.	-	-	-	2	2
80 - 89 TONS.	-	-	-	1	1
100 - 109 TONS.	-	-	-	1	1
130 - 139 TONS.	-	-	-	1	1
160 - 169 TONS.	1	-	-	-	1
TOTAL VESSELS	508	577	411	780	1,968
TOTAL GROSS TONNAGE .	7,297	8,472	6,066	13,528	30,186
BOATS, MOTOR.	700	460	317	941	2,260
GEAR:					
NUMBER OF LINES	4,832	5,900	4,000	10,524	23,456
HOOKS	29,000	26,050	18,300	42,096	107,442

SALMON CATCH BY DISTRICT AND GEAR, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

GEAR AND SPECIES	ALASKA			
	SOUTHEASTERN	CENTRAL	WESTERN	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY
PURSE SEINES:				
CHINOOK OR KING.	151	35	(1)	186
CHUM OR KETA	16,439	24,636	988	42,063
PINK	65,781	70,163	633	136,577
RED OR SOCKEYE	3,224	7,131	56	10,411
SILVER OR COHO	4,067	702	1	4,770
TOTAL.	89,662	102,667	1,678	194,007
FLOATING TRAPS:				
CHUM OR KETA	115	-	-	115
PINK	1,335	-	-	1,335
RED OR SOCKEYE	62	-	-	62
SILVER OR COHO	55	-	-	55
TOTAL.	1,567	-	-	1,567
GILL NETS, ANCHOR, SET OR STAKE:				
CHINOOK OR KING.	19	91	1,879	1,989
CHUM OR KETA	97	2,224	2,375	4,696
PINK	157	11,485	595	12,237
RED OR SOCKEYE	518	4,082	4,521	9,121
SILVER OR COHO	1,629	2,185	246	4,060
TOTAL.	2,420	20,067	9,616	32,103

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SALMON CATCH BY DISTRICT AND GEAR, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

GEAR AND SPECIES	ALASKA - CONTINUED			
	SOUTHEASTERN	CENTRAL	WESTERN	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY
GILL NETS, DRIFT:				
CHINOOK OR KING.	123	342	2,624	3,089
CHUM OR KETA	2,858	7,883	5,047	15,788
PINK	3,662	3,866	4,034	11,562
RED OR SOCKEYE	1,690	6,999	25,842	34,531
SILVER OR COHO	1,354	4,565	421	6,340
TOTAL.	9,687	23,655	37,968	71,310
LINES, TROLL:				
CHINOOK OR KING.	6,279	-	-	6,279
CHUM OR KETA	28	-	-	28
PINK	569	-	-	569
RED OR SOCKEYE	7	-	-	7
SILVER OR COHO	5,729	-	-	5,729
TOTAL.	12,612	-	-	12,612
WHEELS, CHINOOK OR KING, TOTAL	-	-	24	24
GRAND TOTAL.	115,948	146,389	49,286	311,623

GEAR AND SPECIES	WASHINGTON							
	PUGET SOUND		WASHINGTON COAST		COLUMBIA RIVER		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
HAUL SEINES:								
CHINOOK OR KING.	66	22	-	-	-	-	66	22
CHUM OR KETA	20	3	-	-	-	-	20	3
SILVER OR COHO	51	14	-	-	-	-	51	14
TOTAL.	137	39	-	-	-	-	137	39
PURSE SEINES:								
CHINOOK OR KING.	479	163	-	-	-	-	479	163
CHUM OR KETA	1,188	224	-	-	-	-	1,188	224
PINK	1	(1)	-	-	-	-	1	(1)
RED OR SOCKEYE	1,638	608	-	-	-	-	1,638	608
SILVER OR COHO	1,333	373	-	-	-	-	1,333	373
TOTAL.	4,639	1,368	-	-	-	-	4,639	1,368
POUND NETS:								
CHINOOK OR KING.	70	25	-	-	-	-	70	25
CHUM OR KETA	3	(1)	-	-	-	-	3	(1)
RED OR SOCKEYE	4	2	-	-	-	-	4	2
SILVER OR COHO	79	22	-	-	-	-	79	22
TOTAL.	156	49	-	-	-	-	156	49
GILL NETS:								
CHINOOK OR KING.	898	319	681	180	1,221	378	2,800	877
CHUM OR KETA	1,463	266	451	45	9	1	1,923	312
PINK	1	1	-	-	-	-	1	1
RED OR SOCKEYE	1,073	397	92	49	19	7	1,184	453
SILVER OR COHO	1,939	533	912	225	384	101	3,235	859
TOTAL.	5,374	1,516	2,136	499	1,633	487	9,143	2,502
LINES:								
CHINOOK OR KING.	804	378	1,057	488	209	96	2,070	962
CHUM OR KETA	1	(1)	(1)	(1)	(1)	(1)	1	(1)
PINK	41	7	2	(1)	-	-	43	7
RED OR SOCKEYE	3	1	(1)	(1)	-	-	3	1
SILVER OR COHO	1,765	558	1,714	528	1,112	356	4,591	1,442
TOTAL.	2,614	944	2,773	1,016	1,321	452	6,708	2,412
DIP NETS:								
CHINOOK OR KING.	-	-	-	-	94	23	94	23
SILVER OR COHO	-	-	-	-	5	1	5	1
TOTAL.	-	-	-	-	99	24	99	24
REEF NETS:								
CHINOOK OR KING.	37	13	-	-	-	-	37	13
CHUM OR KETA	3	1	-	-	-	-	3	1
PINK	(1)	(1)	-	-	-	-	(1)	(1)
RED OR SOCKEYE	265	98	-	-	-	-	265	98
SILVER OR COHO	88	25	-	-	-	-	88	25
TOTAL.	393	137	-	-	-	-	393	137
GRAND TOTAL.	13,313	4,053	4,909	1,515	3,053	963	21,275	6,531

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SALMON CATCH BY DISTRICT AND GEAR, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

GEAR AND SPECIES	OREGON					
	COLUMBIA RIVER		OREGON COAST		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
GILL NETS:						
CHINOOK OR KING.	3,266	1,051	-	-	3,266	1,051
CHUM OR KETA	14	1	-	-	14	1
PINK	(1)	(1)	-	-	(1)	(1)
RED OR SOCKEYE	50	18	-	-	50	18
SILVER OR COHO	1,583	364	-	-	1,583	364
TOTAL.	4,913	1,434	-	-	4,913	1,434
LINES:						
CHINOOK OR KING.	119	56	602	269	721	325
SILVER OR COHO	613	194	3,620	1,102	4,233	1,296
TOTAL.	732	250	4,222	1,371	4,954	1,621
GRAND TOTAL.	5,645	1,684	4,222	1,371	9,867	3,055

GEAR AND SPECIES	CALIFORNIA					
	NORTHERN		SAN FRANCISCO		MONTEREY	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
OTTER TRAWLS, CHINOOK OR KING	2	1	-	-	-	-
LINES:						
CHINOOK OR KING.	4,023	2,170	3,106	1,898	309	190
SILVER OR COHO	1,398	489	402	149	69	26
TOTAL.	5,421	2,659	3,508	2,047	378	216
GRAND TOTAL.	5,423	2,660	3,508	2,047	378	216

GEAR AND SPECIES	CALIFORNIA - CONTINUED			
	SANTA BARBARA		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE
OTTER TRAWLS, CHINOOK OR KING	1	1	3	2
LINES:				
CHINOOK OR KING.	121	72	7,559	4,330
SILVER OR COHO	50	17	1,919	681
TOTAL.	171	89	9,478	5,011
GRAND TOTAL.	172	90	9,481	5,013

1/ LESS THAN 500 POUNDS OR $500.

NOTE:--IN ALASKA, THE CATCH TAKEN BY HAUL SEINES IS INCLUDED WITH THAT TAKEN BY PURSE SEINES.

SUMMARY OF SALMON CATCH BY DISTRICTS, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	ALASKA							
	SOUTHEASTERN		CENTRAL		WESTERN		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CHINOOK OR KING.	6,572	2,751	468	115	4,527	796	11,567	3,662
CHUM OR KETA	19,537	1,567	34,743	2,507	8,410	620	62,690	4,694
PINK	71,504	7,735	85,514	8,883	5,262	556	162,280	17,174
RED OR SOCKEYE	5,501	1,557	18,212	4,329	30,419	6,361	54,132	12,247
SILVER OR COHO	12,834	2,376	7,452	1,124	668	82	20,954	3,582
TOTAL.	115,948	15,986	146,389	16,958	49,286	8,415	311,623	41,359

(CONTINUED ON NEXT PAGE)

SUMMARY OF SALMON CATCH BY DISTRICTS, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	WASHINGTON							
	PUGET SOUND		WASHINGTON COAST		COLUMBIA RIVER		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CHINOOK OR KING.	2,354	920	1,738	668	1,524	497	5,616	2,085
CHUM OR KETA	2,678	494	451	45	9	1	3,138	540
PINK	43	8	2	(1)	-	-	45	8
RED OR SOCKEYE	2,983	1,106	92	49	19	7	3,094	1,162
SILVER OR COHO	5,255	1,525	2,626	753	1,501	458	9,382	2,736
TOTAL.	13,313	4,053	4,909	1,515	3,053	963	21,275	6,531

SPECIES	OREGON					
	COLUMBIA RIVER		OREGON COAST		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CHINOOK OR KING.	3,385	1,107	602	269	3,987	1,376
CHUM OR KETA	14	1	-	-	14	1
PINK	(1)	(1)	-	-	(1)	(1)
RED OR SOCKEYE	50	18	-	-	50	18
SILVER OR COHO	2,196	558	3,620	1,102	5,816	1,660
TOTAL.	5,645	1,684	4,222	1,371	9,867	3,055

SPECIES	CALIFORNIA					
	NORTHERN		SAN FRANCISCO		MONTEREY	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CHINOOK OR KING.	4,025	2,171	3,106	1,898	309	190
SILVER OR COHO	1,398	489	402	149	69	26
TOTAL.	5,423	2,660	3,508	2,047	378	216

SPECIES	CALIFORNIA - CONTINUED			
	SANTA BARBARA		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE
CHINOOK OR KING.	122	73	7,562	4,332
SILVER OR COHO	50	17	1,919	681
TOTAL.	172	90	9,481	5,013

1/ LESS THAN 500 POUNDS OR $500.

SUMMARY OF SALMON CATCH BY GEAR, 1964

(THOUSANDS OF POUNDS)

STATE AND DISTRICT	HAUL SEINES	PURSE SEINES	OTTER TRAWLS	POUND NETS	FLOATING TRAPS	GILL NETS
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
ALASKA:						
SOUTHEASTERN	-	89,662	-	-	1,567	12,107
CENTRAL.	-	102,667	-	-	-	43,722
WESTERN.	-	1,678	-	-	-	47,584
TOTAL.	-	194,007	-	-	1,567	103,413
WASHINGTON:						
PUGET SOUND.	137	4,639	-	156	-	5,374
WASHINGTON COAST	-	-	-	-	-	2,136
COLUMBIA RIVER	-	-	-	-	-	1,633
TOTAL.	137	4,639	-	156	-	9,143
OREGON, COLUMBIA RIVER, TOTAL	-	-	-	-	-	4,913
CALIFORNIA:						
NORTHERN	-	-	2	-	-	-
SANTA BARBARA.	-	-	1	-	-	-
TOTAL.	-	-	3	-	-	-
GRAND TOTAL.	137	198,646	3	156	1,567	117,469

(CONTINUED ON NEXT PAGE)

SUMMARY OF SALMON CATCH BY GEAR, 1964 - Continued

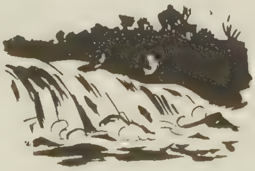
(THOUSANDS OF POUNDS)

STATE AND DISTRICT	LINES	DIP NETS	REEF NETS	FISH WHEELS	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
ALASKA:					
SOUTHEASTERN	12,612	-	-	-	115,948
CENTRAL	-	-	-	-	146,389
WESTERN	-	-	-	24	49,286
TOTAL	12,612	-	-	24	311,623
WASHINGTON:					
PUGET SOUND	2,614	-	393	-	13,313
WASHINGTON COAST	2,773	-	-	-	4,909
COLUMBIA RIVER	1,321	99	-	-	3,053
TOTAL	6,708	99	393	-	21,275
OREGON:					
COLUMBIA RIVER	732	-	-	-	5,645
OREGON COAST	4,222	-	-	-	4,222
TOTAL	4,954	-	-	-	9,867
CALIFORNIA:					
NORTHERN	5,421	-	-	-	5,423
SAN FRANCISCO	3,508	-	-	-	3,508
MONTEREY	378	-	-	-	378
SANTA BARBARA	171	-	-	-	172
TOTAL	9,478	-	-	-	9,481
GRAND TOTAL	33,752	99	393	24	352,246

SUMMARY OF SALMON CATCH BY SPECIES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	QUANTITY	VALUE
CHINOOK OR KING	28,732	11,455
CHUM OR KETA	65,842	5,235
PINK	162,325	17,182
RED OR SOCKEYE	57,276	13,427
SILVER OR COHO	38,071	8,659
TOTAL	352,246	55,958



MACKEREL FISHERIES OF THE PACIFIC COAST, 1964

Landings of jack mackerel, 90.0 million pounds, and Pacific mackerel, 26.8 million, declined 5.9 million pounds (6 percent) and 13.4 million (33 percent) respectively compared with 1963. The combined mackerel catch (116.8 million pounds, valued at $2.9 million) was 14 percent less than in the previous year; while the value declined 3 percent. As in former years, most of the catch of jack mackerel (83 percent) and Pacific mackerel (97 percent) was landed in the San Pedro district of California. Purse seines and lampara nets were the principal gear used in this fishery.

SUMMARY OF JACK MACKEREL CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

STATE AND DISTRICT	PURSE SEINES AND LAMPARA NETS		OTTER TRAWLS		LINES		DIP, BRAIL OR SCOOP NETS 1/		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CALIFORNIA:										
NORTHERN	-	-	1	(2)	-	-	-	-	1	(2)
SAN FRANCISCO	-	-	2	(2)	(2)	(2)	-	-	2	(2)
MONTEREY	2,580	66	(2)	(2)	-	-	4	(2)	2,584	66
SANTA BARBARA	12,179	239	-	-	-	-	-	-	12,179	239
SAN PEDRO	74,927	1,804	-	-	(2)	(2)	-	-	74,927	1,804
TOTAL	89,686	2,109	3	(2)	(2)	(2)	4	(2)	89,693	2,109
HAWAII	-	-	-	-	148	63	144	41	292	104
GRAND TOTAL	89,686	2,109	3	(2)	148	63	148	41	89,985	2,213

1/ INCLUDES THE CATCH BY BAG, LIFT, CAST, AND UNCLASSIFIED NETS IN HAWAII.
2/ LESS THAN 500 POUNDS OR $500.

SUMMARY OF PACIFIC MACKEREL CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

STATE AND DISTRICT	PURSE SEINES AND LAMPARA NETS		GILL AND TRAMMEL NETS		LINES		DIP, BRAIL OR SCOOP NETS		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CALIFORNIA:										
MONTEREY	3	(1)	-	-	(1)	(1)	-	-	3	(1)
SANTA BARBARA	848	18	-	-	-	-	-	-	848	18
SAN PEDRO	25,449	627	3	(1)	1	(1)	521	21	25,974	648
SAN DIEGO	1	(1)	(1)	(1)	1	(1)	1	(1)	3	(1)
TOTAL	26,301	645	3	(1)	2	(1)	522	21	26,828	666

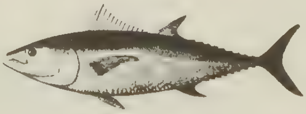
1/ LESS THAN 500 POUNDS OR $500.

ATLANTIC TUNA FISHERY, 1964

There were 11 purse seine vessels and 10 motor boats operated in the Atlantic tuna fishery by 122 fishermen landing in the New England, Middle Atlantic, and Chesapeake States. Purse seiners captured 5.8 million pounds of bluefin and 2.3 million pounds of skipjack. In 1963, there were 9.5 million pounds of bluefin and 4.3 million pounds of skipjack tuna landed by purse seine vessels. In both years, a small amount of yellowfin tuna was taken.

ATLANTIC COAST TUNA PURSE SEINE OPERATING UNITS, 1964

ITEM	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS. . .	89	62	58	122
VESSELS, MOTOR:				
60 - 69 TONS	1	-	-	1
70 - 79 TONS	1	1	-	1
110 - 119 TONS	2	2	-	2
140 - 149 TONS	1	1	1	1
150 - 159 TONS	1	1	1	1
380 - 389 TONS	-	1	1	1
470 - 479 TONS	2	-	-	2
480 - 489 TONS	-	-	1	1
680 - 689 TONS	-	-	1	1
TOTAL VESSELS. . . .	8	6	5	11
TOTAL GROSS TONNAGE.	1,626	995	1,847	3,177
BOATS, MOTOR	6	6	5	10
GEAR:				
NUMBER.	8	6	5	11
LENGTH, YARDS	5,800	4,540	4,480	8,830



TUNA, BLUEFIN

PACIFIC TUNA FISHERY, 1964

The domestic catch of tuna landed at Pacific Coast and Hawaii ports was 296.7 million pounds valued at $38.7 million--a decline of 10.1 million pounds (3 percent) and $537,000 (1 percent) compared with the previous year. Yellowfin landings of 149.5 million pounds were 39.5 million more than in 1963, but this gain was offset by reduced catches of albacore, bluefin, and skipjack tuna. Albacore landings of 48.1 million pounds were 12.7 million less than in 1963, while landings of bluefin (24.0 million) and skipjack tuna (75.1 million) were down 7.3 and 29.6 million pounds respectively.

The largest U. S. vessel built for fishing, the City of Tacoma, a 167-foot tuna seiner with a carrying capacity of 800 tons, entered the Eastern Pacific tuna fishery in 1964. This vessel is the third of a new class of steel tuna vessels designed exclusively for seining tuna. Its capacity is about 50 tons greater than for the other seiners Hornet and Caribbean, built in 1963.

SUMMARY OF PACIFIC COAST TUNA OPERATING UNITS, 1964

ITEM	PURSE SEINES	LINES, HAND			TOTAL, EXCLUSIVE OF DUPLICATION
		ALBACORE BAIT BOATS	YELLOW FIN 1/	ALBACORE TROLLERS	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS.	1,256	713	285	1,884	3,712
ON BOATS AND SHORE. . . .	-	95	12	202	302
TOTAL.	1,256	808	297	2,086	4,014
VESSELS, MOTOR:					
5 - 9 TONS.	-	2	-	40	41
10 - 19 TONS.	-	72	1	325	372
20 - 29 TONS.	-	48	2	216	240
30 - 39 TONS.	-	32	5	128	144
40 - 49 TONS.	-	13	6	49	58
50 - 59 TONS.	-	5	4	22	26
60 - 69 TONS.	-	5	2	7	12
70 - 79 TONS.	-	3	1	7	8
80 - 89 TONS.	1	2	1	2	5
90 - 99 TONS.	1	2	1	-	3
100 - 109 TONS.	-	2	1	2	3
110 - 119 TONS.	-	1	-	-	1
120 - 129 TONS.	3	-	-	-	3
130 - 139 TONS.	3	-	-	2	5
140 - 149 TONS.	1	-	-	1	2
150 - 159 TONS.	2	-	-	-	2
160 - 169 TONS.	2	2	3	-	5
170 - 179 TONS.	1	-	-	-	1
180 - 189 TONS.	3	1	1	-	4
190 - 199 TONS.	5	5	7	-	12
210 - 219 TONS.	2	-	-	-	2
230 - 239 TONS.	2	-	-	-	2
250 - 259 TONS.	2	-	-	-	2
260 - 269 TONS.	3	-	-	-	3
270 - 279 TONS.	4	-	1	-	5
280 - 289 TONS.	1	-	-	-	1
290 - 299 TONS.	2	-	-	-	2
300 - 309 TONS.	2	-	-	-	2
310 - 319 TONS.	4	-	-	-	4
320 - 329 TONS.	2	-	-	-	2
330 - 339 TONS.	2	-	-	-	2
340 - 349 TONS.	3	-	-	-	3
350 - 359 TONS.	6	-	-	-	6
360 - 369 TONS.	4	-	1	-	5
370 - 379 TONS.	2	-	-	-	2
380 - 389 TONS.	3	-	-	-	3
390 - 399 TONS.	2	-	-	-	2

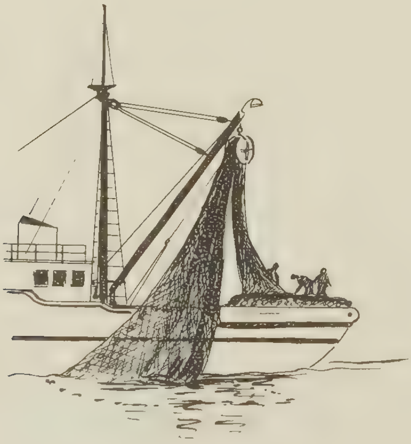
SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF PACIFIC COAST TUNA OPERATING UNITS, 1964 - Continued

ITEM	PURSE SEINES	LINES, HAND			TOTAL, EXCLUSIVE OF DUPLICATION
		ALBACORE BAIT BOATS	YELLOW FIN 1/	ALBACORE TROLLERS	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
400 - 409 TONS.	1	-	-	-	1
410 - 419 TONS.	3	-	-	-	3
420 - 429 TONS.	2	-	-	-	2
430 - 439 TONS.	3	-	1	-	4
440 - 449 TONS.	3	-	-	-	3
450 - 459 TONS.	2	-	-	-	2
460 - 469 TONS.	2	-	-	-	2
470 - 479 TONS.	12	-	-	-	12
480 - 489 TONS.	2	-	-	-	2
490 - 499 TONS.	1	-	-	-	1
520 - 529 TONS.	1	-	-	-	1
580 - 589 TONS.	1	-	-	-	1
630 - 639 TONS.	1	-	-	-	1
720 - 729 TONS.	1	-	-	-	1
800 - 809 TONS.	1	-	-	-	1
810 - 819 TONS.	1	-	-	-	1
TOTAL VESSELS	105	195	38	601	1,033
TOTAL GROSS TONNAGE .	36,342	6,902	4,332	19,588	62,513
BOATS, MOTOR.	208	75	40	169	489
GEAR:					
LENGTH, YARDS	80,560	-	-	-	-
HOOKS	-	763	264	10,236	-

1/ VESSELS OF 50 TONS OR MORE CAPACITY ARE CONSIDERED CLIPPER CRAFT.



Purse seine power block

SUMMARY OF PACIFIC TUNA CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES, STATE, AND DISTRICT	PURSE SEINES		LINES		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALBACORE:						
WASHINGTON:						
PUGET SOUND.	-	-	839	137	839	137
COASTAL.	-	-	116	18	116	18
COLUMBIA RIVER	-	-	100	15	100	15
TOTAL.	-	-	1,055	170	1,055	170
OREGON:						
COLUMBIA RIVER	-	-	3,408	554	3,408	554
COASTAL.	-	-	1,047	162	1,047	162
TOTAL.	-	-	4,455	716	4,455	716
CALIFORNIA:						
NORTHERN	-	-	4,750	653	4,750	653
SAN FRANCISCO.	-	-	1,337	184	1,337	184
MONTEREY	-	-	2,272	313	2,272	313
SANTA BARBARA.	-	-	3,892	538	3,892	538
SAN PEDRO.	336	54	19,854	3,208	20,190	3,262
SAN DIEGO.	52	8	10,058	1,622	10,110	1,630
TOTAL.	388	62	42,163	6,518	42,551	6,580
HAWAII	-	-	9	3	9	3
GRAND TOTAL, ALBACORE	388	62	47,682	7,407	48,070	7,469
BLUEFIN:						
CALIFORNIA:						
SAN PEDRO.	20,441	2,487	31	4	20,472	2,491
SAN DIEGO.	2,656	331	43	5	2,699	336
TOTAL.	23,097	2,818	74	9	23,171	2,827
HAWAII 1/.	-	-	839	494	839	494
GRAND TOTAL, BLUEFIN	23,097	2,818	913	503	24,010	3,321
LITTLE, HAWAII	-	-	35	6	35	6
SKIPJACK:						
CALIFORNIA:						
SAN FRANCISCO.	1,187	127	-	-	1,187	127
MONTEREY	-	-	(2)	(2)	(2)	(2)
SAN PEDRO.	46,031	4,574	6,179	614	52,210	5,188
SAN DIEGO.	10,751	1,110	1,911	199	12,662	1,309
TOTAL.	57,969	5,811	8,090	813	66,059	6,624
HAWAII	-	-	9,024	1,222	9,024	1,222
GRAND TOTAL, SKIPJACK	57,969	5,811	17,114	2,035	75,083	7,846
YELLOWFIN:						
CALIFORNIA:						
SAN FRANCISCO.	1,512	232	-	-	1,512	232
SAN PEDRO.	112,194	14,944	7,600	1,012	119,794	15,956
SAN DIEGO.	26,410	3,480	1,304	181	27,714	3,661
TOTAL.	140,116	18,656	8,904	1,193	149,020	19,849
HAWAII	-	-	500	185	500	185
GRAND TOTAL, YELLOWFIN	140,116	18,656	9,404	1,378	149,520	20,034
GRAND TOTAL, ALL SPECIES	221,570	27,347	75,148	11,329	296,718	38,676

1/ INCLUDES THE CATCH OF BIGEYE TUNA.

2/ LESS THAN 500 POUNDS OR $500.

U. S. MENHADEN FISHERY

Menhaden landings of 1.6 billion pounds were 246 million pounds less than in 1963, and 778 million below the 1962 record. Menhaden comprised 35 percent of the U. S. production of all species.

Of the total, 58 percent was landed in the Gulf of Mexico; 21, in the Chesapeake States; 12, in the South Atlantic States; and 9 percent in the Middle Atlantic States. Less than 1/2 of 1 percent was taken in the New England States.

Purse seines accounted for 97 percent of the catch. The remainder was taken by pound nets, haul seines, gill nets, fyke and hoop nets, trammel nets, and otter trawls.

There were 3,196 fishermen, 183 vessels, 366 motor boats, and 39 other boats employed in the menhaden purse seine fishery.

* * *

SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY TONNAGE GROUPS, 1964

GROSS TONNAGE	MIDDLE ATLANTIC				CHESAPEAKE		
	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLICATION	MARYLAND	VIRGINIA	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
100 - 109 . . .	1	-	-	1	-	-	-
110 - 119 . . .	-	1	-	1	-	-	-
120 - 129 . . .	-	-	-	-	1	2	2
140 - 149 . . .	-	2	-	2	1	4	4
150 - 159 . . .	-	1	-	1	-	2	2
160 - 169 . . .	-	-	1	1	-	1	1
170 - 179 . . .	-	4	1	5	-	-	-
180 - 189 . . .	1	2	1	4	-	3	3
190 - 199 . . .	1	13	15	28	-	11	11
220 - 229 . . .	4	-	-	4	-	1	1
230 - 239 . . .	1	1	-	2	-	1	1
240 - 249 . . .	-	-	-	-	-	2	2
250 - 259 . . .	-	-	-	-	-	3	3
260 - 269 . . .	-	-	-	-	-	5	5
280 - 289 . . .	-	2	-	2	-	1	1
290 - 299 . . .	1	-	-	1	-	1	1
300 - 309 . . .	2	-	-	2	-	-	-
310 - 319 . . .	1	-	1	2	-	-	-
320 - 329 . . .	-	-	-	-	-	1	1
370 - 379 . . .	-	-	-	-	-	1	1
530 - 539 . . .	-	1	-	1	-	1	1
540 - 549 . . .	-	-	-	-	-	1	1
TOTAL VESSELS. .	12	27	19	57	2	41	41
TOTAL GROSS TONNAGE. . .	2,845	5,528	3,816	11,990	263	9,400	9,400

(CONTINUED ON NEXT PAGE)

SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY TONNAGE GROUPS, 1964 - Continued

GROSS TONNAGE	SOUTH ATLANTIC			GULF				GRAND TOTAL, EXCLUSIVE OF DUPLICATION
	NORTH CAROLINA	FLORIDA, EAST COAST	TOTAL, EXCLUSIVE OF DUPLICATION	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICATION	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
40 - 49 . . .	2	-	2	-	-	-	-	2
50 - 59 . . .	2	-	2	-	-	-	-	2
60 - 69 . . .	2	-	2	-	-	-	-	2
70 - 79 . . .	1	-	1	-	-	-	-	1
90 - 99 . . .	-	-	-	-	1	-	1	1
100 - 109 . . .	-	-	-	-	1	-	1	2
110 - 119 . . .	-	1	1	-	1	-	1	3
120 - 129 . . .	-	1	1	-	1	-	1	4
130 - 139 . . .	-	-	-	-	-	1	1	1
140 - 149 . . .	1	1	2	-	4	1	5	12
150 - 159 . . .	-	-	-	-	-	-	-	3
160 - 169 . . .	-	-	-	-	3	2	5	7
170 - 179 . . .	1	-	1	1	4	-	5	11
180 - 189 . . .	2	-	2	2	1	4	7	13
190 - 199 . . .	17	-	17	7	6	-	13	45
210 - 219 . . .	-	-	-	-	3	-	3	3
220 - 229 . . .	3	-	3	2	3	-	5	10
230 - 239 . . .	2	-	2	1	3	-	4	6
240 - 249 . . .	4	-	4	-	1	-	1	6
250 - 259 . . .	7	-	7	-	3	-	3	10
260 - 269 . . .	4	-	4	2	2	-	3	10
280 - 289 . . .	2	-	2	-	-	-	-	3
290 - 299 . . .	2	-	2	1	-	-	1	2
300 - 309 . . .	2	-	2	-	-	-	-	2
310 - 319 . . .	1	-	1	-	3	-	3	4
320 - 329 . . .	1	-	1	-	1	-	1	2
370 - 379 . . .	1	-	1	-	-	-	-	1
410 - 419 . . .	-	-	-	-	1	-	1	1
450 - 459 . . .	1	-	1	-	-	-	-	1
460 - 469 . . .	-	-	-	-	1	-	1	1
470 - 479 . . .	-	-	-	3	2	-	5	5
480 - 489 . . .	-	-	-	-	2	-	2	2
530 - 539 . . .	1	-	1	-	-	-	-	1
540 - 549 . . .	1	-	1	-	-	-	-	1
600 - 609 . . .	-	-	-	1	1	-	1	1
610 - 619 . . .	-	-	-	1	1	-	1	1
640 - 649 . . .	-	-	-	-	1	-	1	1
TOTAL VESSELS. . .	60	3	63	21	50	8	76	183
TOTAL GROSS TONNAGE. . .	13,694	383	14,077	6,048	13,044	1,329	18,939	41,094

SUMMARY OF MENHADEN PURSE SEINE OPERATING UNITS, 1964

AREA AND STATE	VESSELS		BOATS		FISHERMEN	PURSE SEINES	
			MOTOR	OTHER			
	NUMBER	GROSS TONNAGE	NUMBER	NUMBER	NUMBER	NUMBER	LENGTH IN YARDS
MIDDLE ATLANTIC:							
NEW YORK	12	2,845	23	-	195	12	5,060
NEW JERSEY	27	5,528	54	-	459	27	10,540
DELAWARE	19	3,816	38	-	323	19	7,600
TOTAL, EXCLUSIVE OF DUPLICATION .	57	11,990	113	-	960	57	22,800
CHESAPEAKE:							
MARYLAND	2	263	3	-	31	2	750
VIRGINIA	41	9,400	86	-	677	41	15,513
TOTAL, EXCLUSIVE OF DUPLICATION .	41	9,400	86	-	677	41	15,513
SOUTH ATLANTIC:							
NORTH CAROLINA . . .	60	13,694	118	59	1,014	60	24,120
FLORIDA, EAST COAST.	3	383	6	-	63	3	1,200
TOTAL, EXCLUSIVE OF DUPLICATION .	63	14,077	124	59	1,077	63	25,320
GULF:							
MISSISSIPPI.	21	6,048	42	-	372	21	10,590
LOUISIANA.	50	13,044	100	-	900	50	21,730
TEXAS.	8	1,329	16	8	162	8	4,000
TOTAL, EXCLUSIVE OF DUPLICATION .	76	18,939	152	8	1,382	76	35,120
GRAND TOTAL, EXCLUSIVE OF DUPLICATION . .	183	41,094	366	39	3,196	186	77,385

SUMMARY OF MENHADEN CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	HAUL SEINES		PURSE SEINES		OTTER TRAWLS	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND, CONNECTICUT.	-	-	-	-	(1)	(1)
MIDDLE ATLANTIC:						
NEW YORK	-	-	41,587	500	-	-
NEW JERSEY	-	-	55,998	817	2	(1)
DELAWARE	-	-	32,554	378	-	-
TOTAL	-	-	130,139	1,695	2	(1)
CHESAPEAKE:						
MARYLAND	11	(1)	4,362	68	-	-
VIRGINIA	1,973	32	296,995	4,247	-	-
TOTAL	1,984	32	301,357	4,315	-	-
SOUTH ATLANTIC:						
NORTH CAROLINA . . .	28	(1)	172,948	2,249	-	-
FLORIDA, EAST COAST.	1	(1)	16,773	178	-	-
TOTAL	29	(1)	189,721	2,427	-	-
GULF:						
FLORIDA, WEST COAST.	1	(1)	-	-	-	-
MISSISSIPPI.	-	-	237,833	3,131	-	-
LOUISIANA.	-	-	599,538	9,046	-	-
TEXAS.	-	-	66,686	822	-	-
TOTAL	1	(1)	904,057	12,999	-	-
GRAND TOTAL . . .	2,014	32	1,525,274	21,436	2	(1)

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF MENHADEN CATCH, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	POUND NETS		FYKE AND HOOP NETS	
	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND, MASSACHUSETTS.	2	(1)	-	-
MIDDLE ATLANTIC:				
NEW YORK	813	16	-	-
NEW JERSEY	8,209	151	-	-
TOTAL	9,022	167	-	-
CHESAPEAKE:				
MARYLAND	1,300	22	1	(1)
VIRGINIA	31,358	513	375	6
TOTAL	32,658	535	376	6
GRAND TOTAL . . .	41,682	702	376	6

AREA AND STATE	GILL NETS		TRAMMEL NETS		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:						
MASSACHUSETTS. . . .	-	-	-	-	2	(1)
CONNECTICUT.	4	(1)	-	-	4	(1)
TOTAL	4	(1)	-	-	6	(1)
MIDDLE ATLANTIC:						
NEW YORK	25	(1)	-	-	42,425	516
NEW JERSEY	70	2	-	-	64,279	970
DELAWARE	-	-	-	-	32,554	378
TOTAL	95	2	-	-	139,258	1,864
CHESAPEAKE:						
MARYLAND	32	1	-	-	5,706	91
VIRGINIA	7	(1)	-	-	330,708	4,798
TOTAL	39	1	-	-	336,414	4,889
SOUTH ATLANTIC:						
NORTH CAROLINA . . .	16	(1)	-	-	172,992	2,249
FLORIDA, EAST COAST.	377	9	3	(1)	17,154	187
TOTAL	393	9	3	(1)	190,146	2,436
GULF:						
FLORIDA, WEST COAST.	75	2	8	(1)	84	2
MISSISSIPPI.	-	-	-	-	237,833	3,131
LOUISIANA.	-	-	-	-	599,538	9,046
TEXAS.	-	-	-	-	66,686	822
TOTAL	75	2	8	(1)	904,141	13,001
GRAND TOTAL . . .	606	14	11	(1)	1,569,965	22,190

1/ LESS THAN 500 POUNDS OR $500.

U. S. CLAM FISHERY

The clam fishery produced a record 64.5 million pounds of meats valued at $14.9 million--an increase of 1.1 million pounds and $688,000 compared with 1963, the former record year. Surf clams, landed mainly in New Jersey, were 59 percent of the catch; hard clams, 23 percent; and soft clams, 17 percent. The remainder consisted of ocean quahogs, razor, and mixed clams. The Middle Atlantic States led with 71 percent of the catch, followed by the Chesapeake area with 17 percent, New England, 10 percent, and the Pacific Coast, South Atlantic, and Gulf States, and Hawaii, the remaining 2 percent.

Dredges took 50.8 million pounds (79 percent); tongs, 5.7 million (9 percent), and rakes 3.8 million (6 percent). The remainder of the catch was taken with hoes, forks, shovels, or gathered by hand.

In Section 14 of this Digest, under the heading "Conversion Factors", there is a table which gives the average State yield per U.S. standard bushel for the clams taken on the Atlantic and Gulf Coasts. Supplementary shellfish tables appear after the summary tables for each Atlantic and Gulf Regional section.

SUMMARY OF CLAM CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	HARD		OCEAN QUAHOG		RAZOR		SOFT	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:								
MAINE	2	2	-	-	-	-	1,798	827
MASSACHUSETTS	1,440	1,012	-	-	9	4	801	533
RHODE ISLAND	1,827	956	113	11	-	-	64	29
CONNECTICUT	331	138	-	-	-	-	(1)	(1)
TOTAL	3,600	2,108	113	11	9	4	2,663	1,389
MIDDLE ATLANTIC:								
NEW YORK	5,402	4,136	-	-	6	1	181	56
NEW JERSEY	1,894	820	-	-	-	-	22	9
DELAWARE	418	185	-	-	-	-	-	-
TOTAL	7,714	5,141	-	-	6	1	203	65
CHESAPEAKE:								
MARYLAND	332	172	-	-	-	-	8,164	1,667
VIRGINIA	2,453	1,219	-	-	-	-	-	-
TOTAL	2,785	1,391	-	-	-	-	8,164	1,667
SOUTH ATLANTIC:								
NORTH CAROLINA	255	98	-	-	-	-	-	-
SOUTH CAROLINA	146	54	-	-	-	-	-	-
FLORIDA, EAST COAST	1	(1)	-	-	-	-	-	-
TOTAL	402	152	-	-	-	-	-	-
GULF, FLORIDA, WEST COAST	72	24	-	-	-	-	-	-
PACIFIC:								
ALASKA	-	-	-	-	42	20	-	-
WASHINGTON	351	169	-	-	167	111	-	-
OREGON	-	-	-	-	15	9	-	-
CALIFORNIA	1	1	-	-	-	-	-	-
TOTAL	352	170	-	-	224	140	-	-
HAWAII	(1)	(1)	-	-	-	-	-	-
GRAND TOTAL	14,925	8,986	113	11	239	145	11,030	3,121

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF CLAM CATCH, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	SURF		MIXED		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:						
MAINE	-	-	-	-	1,800	829
MASSACHUSETTS	13	3	-	-	2,263	1,552
RHODE ISLAND	-	-	-	-	2,004	996
CONNECTICUT	-	-	-	-	331	138
TOTAL	13	3	-	-	6,398	3,515
MIDDLE ATLANTIC:						
NEW YORK	1,218	109	-	-	6,807	4,302
NEW JERSEY	36,875	2,504	-	-	38,791	3,333
DELAWARE	-	-	-	-	418	185
TOTAL	38,093	2,613	-	-	46,016	7,820
CHESAPEAKE:						
MARYLAND	38	3	-	-	8,534	1,842
VIRGINIA	-	-	-	-	2,453	1,219
TOTAL	38	3	-	-	10,987	3,061
SOUTH ATLANTIC:						
NORTH CAROLINA	-	-	-	-	255	98
SOUTH CAROLINA	-	-	-	-	146	54
FLORIDA, EAST COAST	-	-	-	-	1	(1)
TOTAL	-	-	-	-	402	152
GULF, FLORIDA, WEST COAST	-	-	-	-	72	24
PACIFIC:						
ALASKA	-	-	-	-	42	20
WASHINGTON	-	-	-	-	518	280
OREGON	-	-	13	8	28	17
CALIFORNIA	-	-	-	-	1	1
TOTAL	-	-	13	8	589	318
HAWAII	-	-	-	-	(1)	(1)
GRAND TOTAL	38,144	2,619	13	8	64,464	14,890

1/ LESS THAN 500 POUNDS OR $500.

SUMMARY OF CLAM CATCH BY GEAR, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

GEAR	HARD		OCEAN QUAHOG		RAZOR		SOFT	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
DREDGES	4,516	2,730	113	11	-	-	8,164	1,667
TONGS	5,739	3,447	-	-	-	-	-	-
RAKES	3,495	2,251	-	-	6	1	224	92
HOES	60	47	-	-	9	4	2,614	1,338
FORKS	-	-	-	-	-	-	19	20
SHOVELS	317	159	-	-	224	140	-	-
BY HAND	798	352	-	-	-	-	9	4
UNCLASSIFIED	(1)	(1)	-	-	-	-	-	-
TOTAL	14,925	8,986	113	11	239	145	11,030	3,121

GEAR	SURF		MIXED		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
DREDGES	38,034	2,609	-	-	50,827	7,017
TONGS	-	-	-	-	5,739	3,447
RAKES	110	10	-	-	3,835	2,354
HOES	-	-	-	-	2,683	1,389
FORKS	-	-	-	-	19	20
SHOVELS	-	-	13	8	554	307
BY HAND	-	-	-	-	807	356
UNCLASSIFIED	-	-	-	-	(1)	(1)
TOTAL	38,144	2,619	13	8	64,464	14,890

1/ LESS THAN 500 POUNDS OR $500.

U. S. CRAB FISHERY, 1964

The U. S. catch of crabs was a record 270.4 million pounds--a gain of 18.1 million pounds (7 percent) and $2.5 million (12 percent) compared with 1963, the former peak year.

The Pacific Coast States led in volume with 110.0 million pounds (41 percent) followed by the Chesapeake States with 78.6 million (29 percent); the South Atlantic States, 52.3 million (19 percent); and the Gulf States, 26.3 million pounds (10 percent). The remainder was landed in the New England and Middle Atlantic States and Hawaii.

The Alaska king crab fishery reached a peak production of 86.7 million pounds valued at $8.2 million--8.0 million pounds more than in 1963, the former record year. Hard and soft blue crab landings of 157.1 million pounds were 11.8 million more than in 1963, and exceeded the record 1962 production by 1.9 million pounds. Dungeness crab landings (23.0 million pounds) were 1.8 million less than in 1963 and only slightly over half the record 45.8 million pounds landed in 1948.

In Section 14 under the heading "Conversion Factors," is a table which gives the average number of crabs per pound by species for each of the Atlantic and Gulf States. Supplementary shellfish tables are shown after the summary catch tables for the Atlantic and Gulf States.

SUMMARY OF CRAB CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	BLUE				DUNGENESS	
	HARD		SOFT AND PEELER			
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND, CONNECTICUT . .	(1)	(1)	-	-	-	-
MIDDLE ATLANTIC:						
NEW JERSEY	569	82	10	2	-	-
DELAWARE	313	32	2	1	-	-
TOTAL	882	114	12	3	-	-
CHESAPEAKE:						
MARYLAND	22,540	1,609	3,498	1,263	-	-
VIRGINIA	51,572	3,385	998	452	-	-
TOTAL	74,112	4,994	4,496	1,715	-	-
SOUTH ATLANTIC:						
NORTH CAROLINA	24,092	1,275	70	33	-	-
SOUTH CAROLINA	9,436	375	-	-	-	-
GEORGIA.	11,532	472	-	-	-	-
FLORIDA, EAST COAST. . . .	6,951	448	2	1	-	-
TOTAL	52,011	2,570	72	34	-	-
GULF:						
FLORIDA, WEST COAST. . . .	14,068	843	13	7	-	-
ALABAMA.	1,762	110	-	-	-	-
MISSISSIPPI.	1,286	82	2	(1)	-	-
LOUISIANA.	5,692	379	200	127	-	-
TEXAS.	2,484	175	(1)	(1)	-	-
TOTAL	25,292	1,589	215	134	-	-
PACIFIC COAST:						
ALASKA	-	-	-	-	12,708	1,466
WASHINGTON	-	-	-	-	5,163	1,092
OREGON	-	-	-	-	3,357	817
CALIFORNIA	-	-	-	-	1,815	617
TOTAL	-	-	-	-	23,043	3,992
GRAND TOTAL	152,297	9,267	4,795	1,886	23,043	3,992

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF CRAB CATCH, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	GREEN		KING		ROCK	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:						
MAINE	-	-	-	-	1,964	82
NEW HAMPSHIRE	38	3	-	-	10	(1)
MASSACHUSETTS	21	2	-	-	50	12
RHODE ISLAND	4	(1)	-	-	208	24
TOTAL	63	5	-	-	2,232	118
MIDDLE ATLANTIC, NEW JERSEY	-	-	-	-	45	2
PACIFIC COAST:						
ALASKA	-	-	86,721	8,186	-	-
CALIFORNIA	-	-	-	-	264	25
TOTAL	-	-	86,721	8,186	264	25
GRAND TOTAL	63	5	86,721	8,186	2,541	145

AREA AND STATE	STONE		TANNER		OTHER		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:								
MAINE	-	-	-	-	-	-	1,964	82
NEW HAMPSHIRE	-	-	-	-	-	-	48	3
MASSACHUSETTS	-	-	-	-	-	-	71	14
RHODE ISLAND	-	-	-	-	-	-	212	24
CONNECTICUT	-	-	-	-	-	-	(1)	(1)
TOTAL	-	-	-	-	-	-	2,295	123
MIDDLE ATLANTIC:								
NEW JERSEY	-	-	-	-	-	-	624	86
DELAWARE	-	-	-	-	-	-	315	33
TOTAL	-	-	-	-	-	-	939	119
CHESAPEAKE:								
MARYLAND	-	-	-	-	-	-	26,038	2,872
VIRGINIA	-	-	-	-	-	-	52,570	3,837
TOTAL	-	-	-	-	-	-	78,608	6,709
SOUTH ATLANTIC:								
NORTH CAROLINA	-	-	-	-	-	-	24,162	1,308
SOUTH CAROLINA	-	-	-	-	-	-	9,436	375
GEORGIA	-	-	-	-	-	-	11,532	472
FLORIDA, EAST COAST	191	84	-	-	-	-	7,144	533
TOTAL	191	84	-	-	-	-	52,274	2,688
GULF:								
FLORIDA, WEST COAST	752	233	-	-	-	-	14,833	1,083
ALABAMA	-	-	-	-	-	-	1,762	110
MISSISSIPPI	-	-	-	-	-	-	1,288	82
LOUISIANA	-	-	-	-	-	-	5,892	506
TEXAS	-	-	-	-	-	-	2,484	175
TOTAL	752	233	-	-	-	-	26,259	1,956
PACIFIC COAST:								
ALASKA	-	-	14	1	-	-	99,443	9,653
WASHINGTON	-	-	-	-	-	-	5,163	1,092
OREGON	-	-	-	-	-	-	3,357	817
CALIFORNIA	-	-	-	-	-	-	2,079	642
TOTAL	-	-	14	1	-	-	110,042	12,204
HAWAII	-	-	-	-	25	14	25	14
GRAND TOTAL	943	317	14	1	25	14	270,442	23,813

1/ LESS THAN 500 POUNDS OR $500.

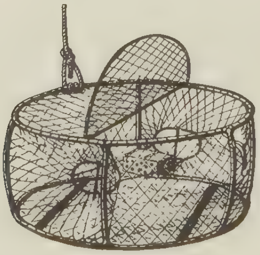
SUMMARY OF CRAB CATCH BY GEAR, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

GEAR	BLUE				DUNGENESS	
	HARD		SOFT AND PEELER			
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
OTTER TRAWLS.	16,437	682	64	30	14	5
POUND NETS.	225	15	386	174	-	-
POTS.	94,325	6,068	674	286	23,029	3,987
LINES, TROT WITH BAITS. . .	26,433	1,571	216	91	-	-
DIP NETS.	1,510	114	204	112	-	-
SCRAPES	89	7	3,207	1,168	-	-
DREDGES	13,278	810	-	-	-	-
BRUSH TRAPS	-	-	24	16	-	-
BY HAND	-	-	20	9	-	-
TOTAL	152,297	9,267	4,795	1,886	23,043	3,992

GEAR	GREEN		KING		ROCK	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
OTTER TRAWLS.	-	-	-	-	42	2
POTS.	63	5	86,721	8,186	2,499	143
TOTAL	63	5	86,721	8,186	2,541	145

GEAR	STONE		TANNER		OTHER		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
OTTER TRAWLS.	-	-	-	-	-	-	16,557	719
POUND NETS.	-	-	-	-	-	-	611	189
POTS.	943	317	14	1	6	4	208,274	18,997
LINES, TROT WITH BAITS. . .	-	-	-	-	-	-	26,649	1,662
DIP NETS.	-	-	-	-	-	-	1,714	226
LIFT NETS	-	-	-	-	11	6	11	6
SCRAPES	-	-	-	-	-	-	3,296	1,175
DREDGES	-	-	-	-	-	-	13,278	810
BRUSH TRAPS	-	-	-	-	-	-	24	16
BY HAND	-	-	-	-	-	-	20	9
UNCLASSIFIED.	-	-	-	-	8	4	8	4
TOTAL	943	317	14	1	25	14	270,442	23,813



DUNGENESS CRAB POT

U. S. OYSTER FISHERY, 1964

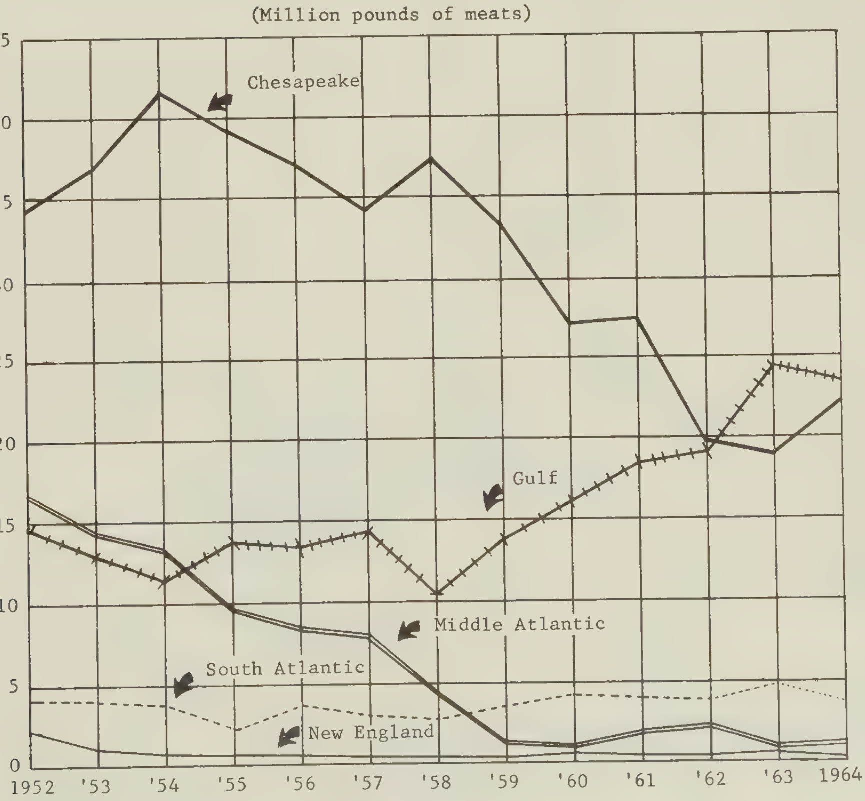
The oyster fishery produced 60.5 million pounds of meats valued at $27.9 million--a gain of 2.1 million pounds and $821,000 compared with 1963. The increased production and value occurred mainly in the Chesapeake States where the catch (22.1 million pounds) and value ($15.8 million) were 3.8 million pounds and $2.1 million more than in the previous year. In 1964, both the volume and value of the oyster catch declined in the New England, South Atlantic, and Gulf areas.

Despite this decline, the Gulf States led in production of oyster meats with a yield of 23.4 million pounds--39 percent of the total catch. The Chesapeake Bay was second with 22.1 million pounds (37 percent), followed by the Pacific area with 10.0 million (16 percent). The New England, Middle Atlantic, and South Atlantic States accounted for the remainder.

Dredges were used to take 41.5 million pounds (69 percent) of the oyster harvest, while tongs accounted for 17.9 million (30 percent). The remainder of the catch was taken using rakes and diving outfits, or was gathered by hand.

In Section 14 of this Digest is a table which gives the volume of the bushel measures used for oysters in the various Atlantic and Gulf States and the average yield per bushel. Supplementary shellfish tables appear after the summary tables for each Atlantic and Gulf regional section.

ATLANTIC AND GULF COAST OYSTER PRODUCTION, 1952-64



SUMMARY OF OYSTER CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	DREDGES		TONGS		RAKES	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:						
MAINE	(1)	(1)	-	-	-	-
MASSACHUSETTS	22	27	22	24	12	25
RHODE ISLAND	-	-	13	13	-	-
CONNECTICUT	123	235	1	1	-	-
TOTAL	145	262	36	38	12	25
MIDDLE ATLANTIC:						
NEW YORK	203	304	10	12	-	-
NEW JERSEY	1,000	925	98	99	-	-
DELAWARE	45	27	-	-	-	-
TOTAL	1,248	1,256	108	111	-	-
CHESAPEAKE:						
MARYLAND	1,879	1,461	6,069	4,000	-	-
VIRGINIA	10,385	7,621	3,483	2,513	279	209
TOTAL	12,264	9,082	9,552	6,513	279	209
SOUTH ATLANTIC:						
NORTH CAROLINA	267	182	163	94	-	-
SOUTH CAROLINA	-	-	2,245	884	-	-
GEORGIA	-	-	20	7	-	-
FLORIDA, EAST COAST	-	-	40	12	-	-
TOTAL	267	182	2,468	997	-	-
GULF:						
FLORIDA, WEST COAST	-	-	2,768	774	-	-
ALABAMA	49	17	956	307	-	-
MISSISSIPPI	3,952	864	877	235	-	-
LOUISIANA	10,765	2,765	610	201	-	-
TEXAS	3,265	1,059	48	17	-	-
TOTAL	18,031	4,705	5,259	1,534	-	-
PACIFIC:						
WASHINGTON:						
PACIFIC	8,244	2,187	-	-	-	-
WESTERN	34	98	-	-	-	-
TOTAL	8,278	2,285	-	-	-	-
OREGON, PACIFIC	335	106	-	-	-	-
CALIFORNIA:						
EASTERN	-	-	5	10	-	-
PACIFIC	909	164	446	80	-	-
TOTAL	909	164	451	90	-	-
TOTAL PACIFIC STATES	9,522	2,555	451	90	-	-
GRAND TOTAL	41,477	18,042	17,674	9,283	291	234

AREA AND STATE	DIVING OUTFITS		BY HAND		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:						
MAINE	2	1	-	-	2	1
MASSACHUSETTS	-	-	-	-	56	76
RHODE ISLAND	-	-	-	-	13	13
CONNECTICUT	-	-	-	-	124	236
TOTAL	2	1	-	-	195	326
MIDDLE ATLANTIC:						
NEW YORK	-	-	-	-	213	316
NEW JERSEY	-	-	-	-	1,098	1,024
DELAWARE	-	-	-	-	45	27
TOTAL	-	-	-	-	1,356	1,367

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

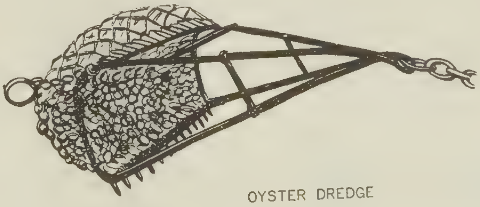
SUMMARY OF OYSTER CATCH, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	DIVING OUTFITS		BY HAND		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CHESAPEAKE:						
MARYLAND.	-	-	-	-	7,948	5,461
VIRGINIA.	-	-	3	2	14,150	10,345
TOTAL.	-	-	3	2	22,098	15,806
SOUTH ATLANTIC:						
NORTH CAROLINA.	-	-	298	139	728	415
SOUTH CAROLINA.	-	-	266	113	2,511	997
GEORGIA	-	-	176	62	196	69
FLORIDA, EAST COAST . . .	-	-	52	16	92	28
TOTAL.	-	-	792	330	3,527	1,509
GULF:						
FLORIDA, WEST COAST . . .	-	-	25	7	2,793	781
ALABAMA	-	-	-	-	1,005	324
MISSISSIPPI	-	-	-	-	4,829	1,099
LOUISIANA	-	-	26	10	11,401	2,976
TEXAS	-	-	44	17	3,357	1,093
TOTAL.	-	-	95	34	23,385	6,273
PACIFIC:						
WASHINGTON:						
PACIFIC	-	-	-	-	8,244	2,187
WESTERN	-	-	-	-	34	98
TOTAL.	-	-	-	-	8,278	2,285
OREGON, PACIFIC	-	-	-	-	335	106
CALIFORNIA:						
EASTERN	-	-	-	-	5	10
PACIFIC	-	-	-	-	1,355	244
TOTAL.	-	-	-	-	1,360	254
TOTAL PACIFIC STATES .	-	-	-	-	9,973	2,645
GRAND TOTAL.	2	1	890	366	60,534	27,926

1/ LESS THAN 500 POUNDS OR $500.

NOTE:--THE CATCH BY HAND IN WASHINGTON AND OREGON HAS BEEN INCLUDED WITH THE CATCH BY DREDGES; IN CALIFORNIA, IT HAS BEEN INCLUDED WITH TONGS.



OYSTER DREDGE

SUMMARY OF ATLANTIC AND GULF OYSTER CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	PUBLIC		PRIVATE	
	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:				
MAINE	2	1	-	-
MASSACHUSETTS	23	29	33	47
RHODE ISLAND	13	13	-	-
CONNECTICUT	1	1	123	235
TOTAL	39	44	156	282
MIDDLE ATLANTIC:				
NEW YORK	49	70	164	246
NEW JERSEY	92	92	1,006	932
DELAWARE	10	6	35	21
TOTAL	151	168	1,205	1,199
CHESAPEAKE:				
MARYLAND	6,803	4,514	1,145	947
VIRGINIA	3,332	2,411	10,818	7,934
TOTAL	10,135	6,925	11,963	8,881
SOUTH ATLANTIC:				
NORTH CAROLINA	650	373	78	42
SOUTH CAROLINA	-	-	2,511	997
GEORGIA	-	-	196	69
FLORIDA, EAST COAST	51	15	41	13
TOTAL	701	388	2,826	1,121
GULF:				
FLORIDA, WEST COAST	2,663	744	130	37
ALABAMA	931	297	74	27
MISSISSIPPI	3,704	841	1,125	258
LOUISIANA	1,326	297	10,075	2,679
TEXAS	3,266	1,055	91	38
TOTAL	11,890	3,234	11,495	3,039
GRAND TOTAL	22,916	10,759	27,645	14,522

SUMMARY OF OYSTER CATCH BY SPECIES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	QUANTITY	VALUE
EASTERN		
PUBLIC	22,916	10,759
PRIVATE 1/	27,650	14,532
TOTAL	50,566	25,291
PACIFIC	9,934	2,537
WESTERN	34	98
GRAND TOTAL	60,534	27,926

1/ EASTERN, PRIVATE, INCLUDES 4,900 POUNDS OF OYSTERS, VALUED AT $10,277 HARVESTED IN CALIFORNIA

U. S. SHRIMP FISHERY

U.S. shrimp landings were 211.8 million pounds valued at $70.4 million--a decrease of 28.7 million pounds, but a gain of $334,000 compared with 1963. The decline in catch occurred principally in the Gulf States where the production of 179.0 million pounds was 24.1 million (12 percent) less than in 1963. The value in this area, however, ($62.7 million) was down only 1 percent. A strong demand for shrimp and a greater percentage of the high-priced large shrimp resulted in relatively stable ex-vessel prices along the Gulf Coast. In the Pacific Coast States, landings of 14.5 million pounds were 32 percent below the 1963 level. In the South Atlantic States, the catch of 17.3 million pounds increased 12 percent and the value, $6.6 million, 26 percent compared with the previous year.

The otter trawl fleet took 208.7 million pounds--99 percent of the total catch. An additional 3.2 million pounds were taken by bag nets, beam trawls, pots and traps, cast nets, and brush traps.

There were 16,133 fishermen employed on the 3,577 vessels and 5,029 boats in the U.S. shrimp otter trawl fishery. Texas led in the number of vessels (craft of 5 net tons and over) with 1,387, while Louisiana was first in boats with 2,967.

SUMMARY OF SHRIMP OTTER TRAWL VESSELS, BY TONNAGE GROUPS, 1964

GROSS TONNAGE	SOUTH ATLANTIC				
	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA, EAST COAST	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
5 - 9.	144	18	25	7	185
10 - 19.	80	60	69	32	214
20 - 29.	39	40	67	47	145
30 - 39.	40	30	81	75	168
40 - 49.	41	26	47	79	132
50 - 59.	17	7	22	31	56
60 - 69.	6	2	17	25	37
70 - 79.	4	-	3	7	12
80 - 89.	-	-	2	1	2
90 - 99.	-	-	-	1	1
100 - 109.	-	-	-	1	1
110 - 119.	-	-	-	1	1
130 - 139.	-	-	-	-	-
140 - 149.	-	-	-	-	-
160 - 169.	-	-	-	-	-
TOTAL VESSELS	371	183	333	307	954
TOTAL GROSS TONNAGE . .	7,832	4,677	10,343	12,004	26,277

GROSS TONNAGE	GULF					
	FLORIDA, WEST COAST	ALABAMA	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
5 - 9.	29	8	7	57	20	104
10 - 19.	75	44	69	252	139	483
20 - 29.	56	35	106	183	82	340
30 - 39.	155	49	72	189	167	387
40 - 49.	171	41	69	200	189	399
50 - 59.	77	23	30	150	169	265
60 - 69.	247	21	34	205	405	535
70 - 79.	76	7	11	79	174	211
80 - 89.	10	1	5	21	30	41
90 - 99.	3	-	1	3	5	9
100 - 109.	1	1	1	2	3	4
110 - 119.	1	-	-	-	1	1
130 - 139.	-	-	-	1	1	1
140 - 149.	-	-	-	1	1	1
160 - 169.	-	-	-	-	1	1
TOTAL VESSELS	901	230	405	1,343	1,387	2,782
TOTAL GROSS TONNAGE . .	42,659	8,225	14,405	53,617	70,572	116,837

(CONTINUED ON NEXT PAGE)

SUMMARY OF SHRIMP OTTER TRAWL VESSELS, BY TONNAGE GROUPS, 1964 - Continued

GROSS TONNAGE	SOUTH ATLANTIC AND GULF	PACIFIC					GRAND TOTAL, EXCLUSIVE OF DUPLICATION
	TOTAL, EXCLUSIVE OF DUPLICATION	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLICATION	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
5 - 9.	288	-	-	-	-	-	288
10 - 19.	688	-	-	3	1	4	692
20 - 29.	466	1	1	13	5	15	481
30 - 39.	501	1	1	3	-	5	506
40 - 49.	467	-	-	5	1	6	473
50 - 59.	297	-	-	1	-	1	298
60 - 69.	553	1	1	2	1	3	556
70 - 79.	214	3	-	-	-	3	217
80 - 89.	43	-	-	-	-	-	43
90 - 99.	10	-	-	-	-	-	10
100 - 109.	5	1	-	1	1	3	8
110 - 119.	2	-	-	-	-	-	2
130 - 139.	1	-	-	-	-	-	1
140 - 149.	1	-	-	-	-	-	1
160 - 169.	1	-	-	-	-	-	1
TOTAL VESSELS . . .	3,537	7	3	28	9	40	3,577
TOTAL GROSS TONNAGE	134,557	435	136	985	327	1,628	136,185

SUMMARY OF SHRIMP OTTER TRAWL OPERATING UNITS, 1964

AREA AND STATE	BOAT FISHERY				
	BOATS	FISHERMEN		OTTER TRAWLS	
		REGULAR	CASUAL		
	NUMBER	NUMBER	NUMBER	NUMBER	YARDS AT MOUTH
NEW ENGLAND, MAINE	28	28	6	28	560
SOUTH ATLANTIC:					
NORTH CAROLINA	349	543	4	349	5,118
SOUTH CAROLINA	63	126	-	63	1,100
GEORGIA.	213	182	255	213	2,353
FLORIDA, EAST COAST. . . .	16	16	4	16	192
TOTAL, EXCLUSIVE OF DUPLICATION.	641	867	263	641	8,763
GULF:					
FLORIDA, WEST COAST. . . .	107	160	12	107	1,327
ALABAMA.	231	380	27	231	3,234
MISSISSIPPI.	360	232	205	360	3,600
LOUISIANA.	2,967	2,974	1,118	2,967	38,937
TEXAS.	695	705	292	695	8,261
TOTAL, EXCLUSIVE OF DUPLICATION.	4,360	4,451	1,654	4,360	55,359
SOUTH ATLANTIC AND GULF, TOTAL, EXCLUSIVE OF DUPLICATION.	5,001	5,318	1,917	5,001	64,122
GRAND TOTAL, EXCLUSIVE OF DUPLICATION	5,029	5,346	1,923	5,029	64,682

(CONTINUED ON NEXT PAGE)

SUMMARY OF SHRIMP OTTER TRAWL OPERATING UNITS, 1964 - Continued

AREA AND STATE	VESSEL FISHERY				
	VESSELS		FISHERMEN	OTTER TRAWLS	
	NUMBER	GROSS TONNAGE	NUMBER	NUMBER	YARDS AT MOUTH
SOUTH ATLANTIC:					
NORTH CAROLINA.	371	7,832	814	491	8,993
SOUTH CAROLINA.	183	4,677	377	314	6,219
GEORGIA	333	10,343	667	606	8,695
FLORIDA, EAST COAST . . .	307	12,004	656	592	8,996
TOTAL, EXCLUSIVE OF DUPLICATION	954	26,277	1,989	1,573	26,254
GULF:					
FLORIDA, WEST COAST . . .	901	42,659	2,254	1,698	26,143
ALABAMA	230	8,225	582	386	6,248
MISSISSIPPI	405	14,405	1,000	643	10,444
LOUISIANA	1,343	53,617	3,503	2,319	36,073
TEXAS	1,387	70,572	3,749	2,609	39,597
TOTAL, EXCLUSIVE OF DUPLICATION	2,782	116,837	7,121	4,842	75,258
SOUTH ATLANTIC AND GULF, TOTAL, EXCLUSIVE OF DUPLICATION	3,537	134,557	8,730	6,025	95,551
PACIFIC:					
ALASKA.	7	435	27	7	105
WASHINGTON.	3	136	9	3	57
OREGON.	28	985	90	28	532
CALIFORNIA.	9	327	33	9	132
TOTAL, EXCLUSIVE OF DUPLICATION	40	1,628	134	40	718
GRAND TOTAL, EXCLUSIVE OF DUPLICATION. . .	3,577	136,185	8,864	6,065	96,269

AREA AND STATE	TOTAL (BOAT AND VESSEL FISHERY)			
	BOATS AND VESSELS	FISHERMEN	OTTER TRAWLS	
	NUMBER	NUMBER	NUMBER	YARDS AT MOUTH
NEW ENGLAND, MAINE.	28	34	28	560
SOUTH ATLANTIC:				
NORTH CAROLINA.	720	1,361	840	14,111
SOUTH CAROLINA.	246	503	377	7,319
GEORGIA	546	1,104	819	11,048
FLORIDA, EAST COAST . . .	323	676	608	9,188
TOTAL, EXCLUSIVE OF DUPLICATION	1,595	3,119	2,214	35,017
GULF:				
FLORIDA, WEST COAST . . .	1,008	2,426	1,805	27,470
ALABAMA	461	989	617	9,482
MISSISSIPPI	765	1,437	1,003	14,044
LOUISIANA	4,310	7,595	5,286	75,010
TEXAS	2,082	4,746	3,304	47,858
TOTAL, EXCLUSIVE OF DUPLICATION	7,142	13,226	9,202	130,617
SOUTH ATLANTIC AND GULF, TOTAL, EXCLUSIVE OF DUPLICATION	8,538	15,965	11,026	159,673
PACIFIC:				
ALASKA.	7	27	7	105
WASHINGTON.	3	9	3	57
OREGON.	28	90	28	532
CALIFORNIA.	9	33	9	132
TOTAL, EXCLUSIVE OF DUPLICATION	40	134	40	718
GRAND TOTAL, EXCLUSIVE OF DUPLICATION. . .	8,606	16,133	11,094	160,951

SUMMARY OF SHRIMP CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	BAG NETS		BEAM TRAWLS		OTTER TRAWLS		POTS AND TRAPS	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:								
MAINE	-	-	-	-	925	112	-	-
MASSACHUSETTS	-	-	-	-	7	1	-	-
TOTAL	-	-	-	-	932	113	-	-
MIDDLE ATLANTIC, NEW JERSEY	-	-	2	2	-	-	-	-
SOUTH ATLANTIC:								
NORTH CAROLINA	210	64	-	-	4,069	1,439	-	-
SOUTH CAROLINA	-	-	-	-	2,597	853	-	-
GEORGIA	-	-	-	-	5,939	2,298	-	-
FLORIDA, EAST COAST	-	-	-	-	4,476	1,964	-	-
TOTAL	210	64	-	-	17,081	6,554	-	-
GULF:								
FLORIDA, WEST COAST	-	-	-	-	39,966	13,322	-	-
ALABAMA	-	-	-	-	7,215	2,630	-	-
MISSISSIPPI	-	-	-	-	6,416	1,805	-	-
LOUISIANA	-	-	-	-	59,365	18,790	-	-
TEXAS	-	-	-	-	66,053	26,144	-	-
TOTAL	-	-	-	-	179,015	62,691	-	-
PACIFIC:								
ALASKA	-	-	2,790	112	4,932	197	5	(1)
WASHINGTON	-	-	10	4	314	24	60	29
OREGON	-	-	-	-	5,280	449	-	-
CALIFORNIA	-	-	-	-	1,100	110	6	4
TOTAL	-	-	2,800	116	11,626	780	71	33
MISSISSIPPI RIVER AND TRIBUTARIES	-	-	-	-	-	-	17	4
GRAND TOTAL	210	64	2,802	118	208,654	70,138	88	37

AREA AND STATE	CAST NETS		BRUSH TRAPS		UNCLASSIFIED		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:								
MAINE	-	-	-	-	-	-	925	112
MASSACHUSETTS	-	-	-	-	-	-	7	1
TOTAL	-	-	-	-	-	-	932	113
MIDDLE ATLANTIC, NEW JERSEY	-	-	-	-	-	-	2	2
SOUTH ATLANTIC:								
NORTH CAROLINA	-	-	-	-	-	-	4,279	1,503
SOUTH CAROLINA	35	8	-	-	-	-	2,632	861
GEORGIA	(1)	(1)	-	-	-	-	5,939	2,298
FLORIDA, EAST COAST	15	7	-	-	-	-	4,491	1,971
TOTAL	50	15	-	-	-	-	17,341	6,633
GULF:								
FLORIDA, WEST COAST	-	-	-	-	-	-	39,966	13,322
ALABAMA	-	-	-	-	-	-	7,215	2,630
MISSISSIPPI	-	-	-	-	-	-	6,416	1,805
LOUISIANA	-	-	17	4	-	-	59,382	18,794
TEXAS	-	-	-	-	-	-	66,053	26,144
TOTAL	-	-	17	4	-	-	179,032	62,695
PACIFIC:								
ALASKA	-	-	-	-	-	-	7,727	309
WASHINGTON	-	-	-	-	-	-	384	57
OREGON	-	-	-	-	-	-	5,280	449
CALIFORNIA	-	-	-	-	-	-	1,106	114
TOTAL	-	-	-	-	-	-	14,497	929
MISSISSIPPI RIVER AND TRIBUTARIES	-	-	-	-	-	-	17	4
HAWAII	-	-	-	-	(1)	(1)	(1)	(1)
GRAND TOTAL	50	15	17	4	(1)	(1)	211,821	70,376

1/ LESS THAN 500 POUNDS OR $500.

U. S. FISH OTTER TRAWL FLEET, 1964

The following tables contain information on the U. S. fish otter trawl fleet. The data include detailed information on the operating units in this fishery and a breakdown of vessels by area, State, and gross tonnage. In 1964, there were 1,163 vessels of over 5 net tons and 130 motor boats in the fish otter trawl fleet. A total of 5,606 fishermen was employed on these craft. Two trawls were used by 31 of the vessels, bringing the total number of trawls to 1,194.

SUMMARY OF FISH OTTER TRAWL VESSELS, BY TONNAGE GROUPS, 1964

GROSS TONNAGE	NEW ENGLAND				
	MAINE	MASSACHUSETTS	RHODE ISLAND	CONNECTICUT	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
5 - 9.	-	4	-	-	4
10 - 19.	8	34	14	7	63
20 - 29.	12	37	16	5	67
30 - 39.	6	52	9	9	69
40 - 49.	3	45	14	2	53
50 - 59.	8	33	5	2	41
60 - 69.	2	36	1	1	36
70 - 79.	5	32	3	-	36
80 - 89.	-	18	-	-	18
90 - 99.	1	11	-	-	12
100 - 109.	3	11	-	-	12
110 - 119.	5	20	-	-	22
120 - 129.	-	9	-	-	9
130 - 139.	1	8	-	-	9
140 - 149.	1	5	-	-	6
150 - 159.	1	9	1	-	11
160 - 169.	5	8	-	-	8
170 - 179.	2	4	-	-	5
180 - 189.	-	2	-	-	2
190 - 199.	1	5	-	-	5
200 - 209.	-	1	-	-	1
210 - 219.	-	3	-	-	3
220 - 229.	-	3	-	-	3
230 - 239.	1	2	-	-	3
240 - 249.	1	2	-	-	3
250 - 259.	1	2	-	-	2
260 - 269.	-	2	-	-	2
290 - 299.	-	2	-	-	2
300 - 309.	2	-	-	-	2
310 - 319.	2	-	-	-	2
320 - 329.	2	-	-	-	2
450 - 459.	-	1	-	-	1
TOTAL VESSELS.	73	401	63	26	514
TOTAL GROSS TONNAGE. .	7,090	29,871	2,194	771	36,228

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF FISH OTTER TRAWL VESSELS, BY TONNAGE GROUPS, 1964 - Continued

GROSS TONNAGE	MIDDLE ATLANTIC				CHESAPEAKE		
	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLICATION	MARYLAND	VIRGINIA	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
5 - 9.	4	10	-	14	-	2	2
10 - 19.	41	27	1	69	7	7	14
20 - 29.	48	23	1	70	5	5	10
30 - 39.	30	16	1	45	2	7	8
40 - 49.	17	14	-	31	2	5	6
50 - 59.	9	16	-	23	3	7	8
60 - 69.	8	10	-	13	1	5	5
70 - 79.	16	15	-	25	1	10	11
80 - 89.	4	3	-	5	-	1	1
90 - 99.	1	1	-	1	-	-	-
100 - 109.	2	2	-	3	-	2	2
110 - 119.	5	6	-	7	-	5	5
120 - 129.	4	1	-	4	-	2	2
130 - 139.	1	1	-	1	-	2	2
140 - 149.	1	1	-	2	-	2	2
150 - 159.	1	-	-	1	-	-	-
190 - 199.	1	1	-	1	-	1	1
TOTAL VESSELS.	193	147	3	315	21	63	79
TOTAL GROSS TONNAGE. .	8,115	6,675	78	12,585	691	4,024	4,463

GROSS TONNAGE	SOUTH ATLANTIC	GULF			
	NORTH CAROLINA, TOTAL, EXCLUSIVE OF DUPLICATION	FLORIDA, WEST COAST	MISSISSIPPI	LOUISIANA	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
5 - 9.	7	-	-	-	-
10 - 19.	6	-	13	2	15
20 - 29.	12	-	25	-	25
30 - 39.	13	1	21	-	22
40 - 49.	20	1	7	4	12
50 - 59.	9	1	6	-	7
60 - 69.	5	-	5	-	5
70 - 79.	2	-	3	-	3
80 - 89.	-	-	1	-	1
90 - 99.	-	-	-	1	1
120 - 129.	2	-	-	-	-
150 - 159.	-	-	1	-	1
TOTAL VESSELS.	76	3	82	7	92
TOTAL GROSS TONNAGE. .	2,973	128	2,982	285	3,395

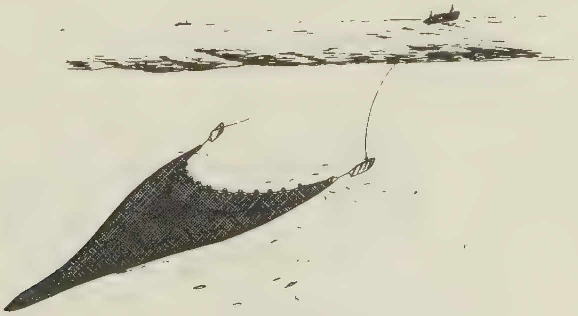
SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF FISH OTTER TRAWL VESSELS BY TONNAGE GROUPS, 1964 - Continued

GROSS TONNAGE	PACIFIC					GREAT LAKES	GRAND TOTAL, EXCLUSIVE OF DUPLICATION
	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLICATION	TOTAL, EXCLUSIVE OF DUPLICATION	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
5 - 9.	-	1	-	1	2	2	30
10 - 19.	-	9	-	7	16	6	181
20 - 29.	-	12	7	16	35	5	199
30 - 39.	-	16	9	11	34	1	171
40 - 49.	1	30	19	12	56	5	164
50 - 59.	-	17	9	7	31	-	106
60 - 69.	-	10	2	2	14	-	68
70 - 79.	-	4	1	5	10	1	63
80 - 89.	1	5	3	3	11	-	33
90 - 99.	-	3	2	-	5	-	18
100 - 109.	-	2	2	2	5	-	18
110 - 119.	-	-	-	1	1	-	26
120 - 129.	-	-	-	-	-	-	11
130 - 139.	-	-	-	-	-	-	11
140 - 149.	-	-	-	-	-	-	6
150 - 159.	-	-	-	-	-	-	12
160 - 169.	-	-	-	-	-	-	8
170 - 179.	-	-	-	-	-	-	5
180 - 189.	-	-	-	-	-	-	2
190 - 199.	-	-	-	-	-	-	5
200 - 209.	-	-	-	-	-	-	1
210 - 219.	-	-	-	-	-	-	3
220 - 229.	-	-	-	-	-	-	3
230 - 239.	-	-	-	-	-	-	3
240 - 249.	-	-	-	-	-	-	2
250 - 259.	-	-	-	-	-	-	2
260 - 269.	-	-	-	-	-	-	2
290 - 299.	-	-	-	-	-	-	2
300 - 309.	-	-	-	-	-	-	2
310 - 319.	-	-	-	-	-	-	2
320 - 329.	-	-	-	-	-	-	2
450 - 459.	-	-	-	-	-	-	1
TOTAL VESSELS.	2	109	54	67	220	1/ 20	1,163
TOTAL GROSS TONNAGE. .	126	5,161	2,653	2,848	10,152	531	60,980

1/ INCLUDES 4 VESSELS OPERATED IN LAKE WINNEBAGO.



FISH OTTER TRAWL

SUMMARY OF FISH OTTER TRAWL OPERATING UNITS, 1964

AREA AND STATE	BOAT FISHERY				
	BOATS	FISHERMEN		OTTER TRAWLS	
		REGULAR	CASUAL		
	NUMBER	NUMBER	NUMBER	NUMBER	YARDS AT MOUTH
NEW ENGLAND:					
MAINE.	40	46	10	40	779
MASSACHUSETTS.	4	4	3	4	68
RHODE ISLAND	7	15	-	7	127
CONNECTICUT.	28	9	29	28	356
TOTAL, EXCLUSIVE OF DUPLICATION. . . .	79	74	42	79	1,330
MIDDLE ATLANTIC:					
NEW YORK	8	14	3	8	152
NEW JERSEY	13	27	-	13	208
DELAWARE	1	2	-	1	19
TOTAL, EXCLUSIVE OF DUPLICATION. . . .	22	43	3	22	379
CHESAPEAKE, MARYLAND . . .	4	9	-	4	94
SOUTH ATLANTIC, NORTH CAROLINA.	20	40	-	20	320
GREAT LAKES 1/	2	9	-	2	27
PACIFIC, CALIFORNIA. . . .	5	10	-	5	100
GRAND TOTAL, EXCLUSIVE OF DUPLICATION. . . .	130	176	45	130	2,223

AREA AND STATE	VESSEL FISHERY				
	VESSELS		FISHERMEN	OTTER TRAWLS	
	NUMBER	GROSS TONNAGE	NUMBER	NUMBER	YARDS AT MOUTH
NEW ENGLAND:					
MAINE.	73	7,090	332	73	1,688
MASSACHUSETTS.	401	29,871	2,477	401	10,807
RHODE ISLAND	63	2,194	207	63	1,617
CONNECTICUT.	26	771	65	26	581
TOTAL, EXCLUSIVE OF DUPLICATION. . . .	514	36,228	2,847	514	13,444
MIDDLE ATLANTIC:					
NEW YORK	193	8,115	594	193	4,650
NEW JERSEY	147	6,675	496	147	3,637
DELAWARE	3	78	6	3	67
TOTAL, EXCLUSIVE OF DUPLICATION. . . .	315	12,585	963	315	7,570
CHESAPEAKE:					
MARYLAND	21	691	60	21	550
VIRGINIA	63	4,024	260	63	1,683
TOTAL, EXCLUSIVE OF DUPLICATION. . . .	79	4,463	300	79	2,116
SOUTH ATLANTIC, NORTH CAROLINA.	76	2,973	200	76	2,044
GULF:					
FLORIDA, WEST COAST. . .	3	128	9	3	87
MISSISSIPPI.	82	2,982	197	109	1,995
LOUISIANA.	7	285	17	11	186
TOTAL, EXCLUSIVE OF DUPLICATION. . . .	92	3,395	223	123	2,268
PACIFIC:					
ALASKA	2	126	8	2	30
WASHINGTON	109	5,161	402	109	2,403
OREGON	54	2,653	199	54	1,215
CALIFORNIA	67	2,848	253	67	1,809
TOTAL, EXCLUSIVE OF DUPLICATION. . . .	220	10,152	816	220	5,197
GREAT LAKES 2/	20	531	46	20	408
GRAND TOTAL, EXCLUSIVE OF DUPLICATION	1,163	60,980	4,743	1,194	28,992

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

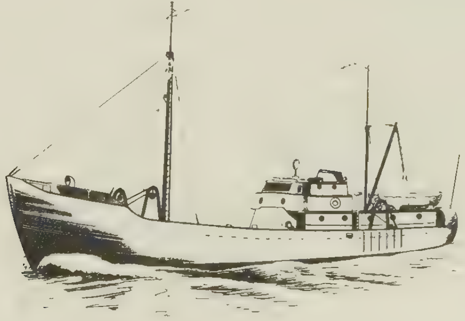
SUMMARY OF FISH OTTER TRAWL OPERATING UNITS, 1964 - Continued

AREA AND STATE	TOTAL (BOAT AND VESSEL FISHERY)			
	BOATS AND VESSELS	FISHERMEN	OTTER TRAWLS	
	NUMBER	NUMBER	NUMBER	YARDS AT MOUTH
NEW ENGLAND:				
MAINE.	113	388	113	2,467
MASSACHUSETTS.	405	2,484	405	10,875
RHODE ISLAND	70	222	70	1,744
CONNECTICUT.	54	103	54	937
TOTAL, EXCLUSIVE OF DUPLICATION. . . .	593	2,963	593	14,774
MIDDLE ATLANTIC:				
NEW YORK	201	611	201	4,802
NEW JERSEY	160	523	160	3,845
DELAWARE	4	8	4	86
TOTAL, EXCLUSIVE OF DUPLICATION. . . .	337	1,009	337	7,949
CHESAPEAKE:				
MARYLAND	25	69	25	644
VIRGINIA	63	260	63	1,683
TOTAL, EXCLUSIVE OF DUPLICATION. . . .	83	309	83	2,210
SOUTH ATLANTIC, NORTH CAROLINA.	96	240	96	2,364
GULF:				
FLORIDA, WEST COAST. . .	3	9	3	87
MISSISSIPPI.	82	197	109	1,995
LOUISIANA.	7	17	11	186
TOTAL, EXCLUSIVE OF DUPLICATION. . . .	92	223	123	2,268
PACIFIC:				
ALASKA	2	8	2	30
WASHINGTON	109	402	109	2,403
OREGON	54	199	54	1,215
CALIFORNIA	72	263	72	1,909
TOTAL, EXCLUSIVE OF DUPLICATION. . . .	225	816	225	5,297
GREAT LAKES 2/	20	46	20	408
GRAND TOTAL, EXCLUSIVE OF DUPLICATION	1,446	5,606	1,477	35,270

1/ OPERATED IN LAKE WINNEBAGO, WHICH DRAINS INTO THE MISSISSIPPI RIVER.

2/ INCLUDES 4 VESSELS OPERATED IN LAKE WINNEBAGO.

LARGE OTTER TRAWLER



SECTION 13

HISTORICAL FISHERY STATISTICS

Statistics of the fisheries of the United States are necessary for the best use of the Nation's aquatic resources. As series of data for extended periods of time are accumulated, the information becomes increasingly more valuable in indicating trends in the supply and utilization of fishery products. The extent to which these data are used is frequently dependent upon the ready availability of needed information to researchers, management officials, and members of the fishing industry.

Periodically, there are published in "Fishery Statistics of the United States" historical data for each State on the catch of important species. The most recent publication of these data was in Statistical Digest No. 43 entitled "Fishery Statistics of the United States, 1956."

The Bureau of Commercial Fisheries has in its files and in various Bureau reports or publications of other organizations a large volume of historical data. These statistics would be of considerable use to researchers and others interested in the fisheries. Unfortunately, few know of these records. To make the series readily available to researchers and others interested in the fisheries, a section entitled "Historical Fishery Statistics" has been published, since 1951, in "Fishery Statistics of the United States." The titles of the series published, and the identifying number of the Digest in which each appears, follow:

	Published in Statistical Digest Number	Revised and updated in Statistical Digest Number
Menhaden Fishery, 1873-1951	30	58
Oyster Fishery, 1880-1952	34	58
Pacific Sardine Fishery, 1915-53.	36	58
Atlantic Ocean Perch Fishery, 1930-54.	39	58
Pacific Herring Fishery, 1881-1955	41	58
United States Haddock Fishery, 1880-1956	43	-
United States Tuna Fishery, 1911-57.	44	58
United States Atlantic Cod Fishery, 1893-1958	49	-
Fur Seal Industry of the Pribilof Islands, 1786-1959 . .	51	-
Eastern Pacific Halibut Fishery, 1888-1960	53	-
California Mackerel Fisheries, 1889-1961	54	-
Atlantic Mackerel Fishery, 1804-1962	56	-
Commercial Fisheries of the Great Lakes, 1879-1963 .	57	-
Potomac River Alewife Fishery, 1896-1964; Hudson River and Potomac River Shad Fishery, 1896-1964 . .	58	-

The following pages include historical data on the Potomac River Alewife Fishery and the Hudson River and Potomac River Shad Fishery followed by revised data as shown in the above table.

POTOMAC RIVER ALEWIFE FISHERY, 1896-1964

YEAR	MARYLAND			VIRGINIA			TOTAL		
	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE
1896 1/	-	-	-	-	-	-	24,437,885	9,775,154	$39,003
1909	4,883,000	1,953,200	$10,369	24,601,040	9,840,416	$42,854	29,484,040	11,793,616	53,223
1915	335,000	134,000	1,420	7,276,428	2,910,571	30,741	7,611,428	3,044,571	32,161
1919	1,488,583	772,867	15,508	7,379,319	2,904,054	45,508	8,867,902	3,676,921	61,016
1920	1,077,775	538,888	13,940	7,681,561	3,813,780	41,197	8,759,336	4,352,668	55,137
1921	1,395,000	558,000	9,010	8,908,510	3,563,404	35,031	10,303,510	4,121,404	44,041
1922	1,292,500	517,000	3,700	10,074,500	4,029,800	34,642	11,367,000	4,546,800	38,342
1923	2,119,787	847,916	8,764	9,308,782	3,722,912	40,657	11,428,569	4,570,828	49,421
1924	1,834,000	733,600	6,855	13,299,388	5,319,156	49,667	15,133,388	6,052,756	56,552
1925	415,000	166,000	2,070	7,420,380	2,968,152	35,271	7,835,380	3,134,152	37,341
1926	1,295,020	518,600	6,518	12,500,828	5,000,330	48,848	13,795,848	5,518,930	55,366
1927	1,272,000	508,699	5,741	10,336,067	4,136,666	44,847	11,608,067	4,645,365	50,588
1928	1,801,475	720,590	9,565	12,982,180	5,182,472	48,732	14,783,655	5,903,062	58,297
1929	884,000	353,600	7,075	6,827,030	2,730,812	47,841	7,711,030	3,084,412	54,916
1930	837,000	334,800	5,818	6,948,300	2,780,118	43,497	7,785,300	3,114,918	49,315
1931	977,750	391,100	3,851	17,403,100	6,961,240	51,609	18,380,850	7,352,340	55,460
1932	1,211,000	484,400	2,512	15,898,533	6,360,213	21,529	17,109,533	6,844,613	24,041
1933	1,220,810	488,324	2,347	16,018,040	6,407,216	21,498	17,238,850	6,895,540	23,845
1934	52,000	20,800	470	5,018,840	2,007,600	15,786	5,070,840	2,028,400	16,256
1935	555,750	222,300	2,738	10,587,000	4,234,800	23,912	11,142,750	4,457,100	26,650
1936	396,250	158,500	1,527	10,890,750	4,356,300	35,147	11,287,000	4,514,800	36,674
1937	519,750	207,900	1,805	7,047,750	2,817,300	27,338	7,567,500	3,025,200	29,143
1938	975,500	386,200	3,797	8,272,500	3,309,000	33,193	9,248,000	3,695,200	36,990
1939	338,880	136,600	1,662	9,662,500	3,065,000	30,650	10,001,380	3,201,600	32,312
1940	402,600	161,000	1,834	6,729,750	2,691,900	28,226	7,132,350	2,852,900	30,060
1941	367,400	146,960	1,504	8,468,450	3,387,800	26,426	8,835,850	3,534,760	27,930
1942	492,250	196,900	2,604	6,209,800	2,064,100	33,849	6,702,050	2,261,000	36,453
1944	329,400	164,700	3,625	11,534,800	5,767,400	115,347	11,864,200	5,932,100	118,972
1945	291,000	145,500	4,365	8,432,600	4,216,300	105,827	8,723,600	4,361,800	110,192
1946	367,200	168,200	5,037	7,280,800	3,344,300	100,158	7,648,000	3,512,500	105,195
1947	389,770	186,000	4,683	21,383,600	10,398,200	207,964	21,773,370	10,584,200	212,647
1948	399,800	193,900	4,536	19,416,900	9,415,300	192,521	19,816,700	9,609,200	197,057
1949	575,900	273,600	5,767	21,895,200	11,116,800	179,330	22,471,100	11,390,400	185,097
1950	389,890	183,100	2,749	26,096,500	11,618,300	175,119	26,486,390	11,801,400	177,868
1951	432,100	199,700	3,361	31,172,300	14,522,700	190,375	31,604,400	14,722,400	193,736
1952	82,300	39,500	563	24,590,950	11,708,400	177,273	24,673,250	11,747,900	177,836
1953	98,370	48,400	891	22,924,200	11,206,800	177,270	23,022,570	11,255,200	178,161
1954	225,800	112,600	2,258	26,427,900	13,110,600	158,670	26,653,700	13,223,200	160,928
1955	74,100	37,050	761	22,072,000	9,012,100	90,855	22,146,100	9,049,150	91,616
1956	117,000	58,500	1,170	19,416,300	9,386,200	138,875	19,533,300	9,444,700	140,045
1957	113,497	54,200	797	18,983,200	9,118,300	132,181	19,096,697	9,172,500	132,978
1958	147,580	73,800	1,476	19,500,600	8,799,300	123,163	19,648,180	8,873,100	124,639
1959	84,492	42,200	845	16,398,000	7,289,100	109,548	16,482,492	7,331,300	110,393
1960	85,664	42,900	643	12,927,850	5,745,700	86,479	13,013,514	5,788,600	87,122
1961	50,095	21,500	301	14,516,400	6,213,400	106,702	14,566,495	6,234,900	107,003
1962	19,070	8,200	132	25,594,885	11,005,400	217,208	25,613,955	11,013,600	217,340
1963	19,136	9,200	139	16,966,869	8,028,600	136,360	16,986,005	8,037,800	136,499
1964	66,206	28,800	521	18,725,975	8,146,100	138,859	18,792,181	8,174,900	139,380

1/ DATA FOR THE TWO STATES NOT ENUMERATED SEPARATELY.

HUDSON RIVER SHAD FISHERY, 1896-1964

YEAR	NEW YORK			NEW JERSEY			TOTAL		
	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE
1896	420,098	1,681,371	$58,921	168,800	675,595	$24,316	588,898	2,356,966	$83,237
1897	404,877	1,506,142	49,353	115,200	529,920	17,934	520,077	2,036,062	67,287
1898	410,395	1,534,877	50,875	129,855	606,423	18,510	540,250	2,141,300	69,385
1901	829,612	3,202,302	100,762	144,315	577,260	21,647	973,927	3,779,562	122,409
1904	100,624	402,496	28,896	57,657	201,800	17,758	158,281	604,296	46,654
1910	126,534	506,136	51,715	101,720	406,880	49,109	228,254	913,016	100,824
1915	11,606	48,564	5,969	4,249	20,104	2,674	15,855	68,668	8,643
1916	7,787	32,923	4,540	1,500	7,250	925	9,287	40,173	5,465
1917	10,615	38,344	5,810	1,400	5,040	720	12,015	43,384	6,530
1918	63,404	220,602	44,784	3,999	14,000	3,400	67,403	234,602	48,184
1919	76,501	301,306	60,690	13,800	73,668	23,034	90,301	374,974	83,724
1920	39,692	157,715	43,882	9,623	42,129	12,427	49,315	199,844	56,309
1921	28,948	104,883	24,329	6,500	25,920	6,294	35,448	130,803	30,623
1922	36,111	128,324	27,451	12,225	46,862	12,255	48,336	175,186	39,706
1923	28,636	97,863	22,644	6,450	23,865	6,000	35,086	121,728	28,644
1924	22,814	72,519	17,619	5,980	21,850	5,485	28,794	94,369	23,104
1925	34,568	110,359	24,030	4,300	13,975	2,400	38,868	124,334	26,430
1926	73,312	219,183	47,175	11,150	46,237	6,300	84,462	265,420	53,475
1927	89,984	299,693	56,950	20,300	58,362	6,700	110,284	358,055	63,650
1928	61,079	194,181	32,689	17,950	52,050	10,460	79,029	246,231	43,149
1929	45,980	157,895	25,801	10,500	38,850	4,882	56,480	196,745	30,683
1930	49,241	165,004	27,688	12,200	41,500	5,684	61,441	206,504	33,372
1931	104,043	342,611	40,840	21,900	72,000	8,941	125,943	414,611	49,781
1932	121,358	397,754	40,087	38,000	132,000	10,762	159,358	529,754	50,849
1933	105,287	347,656	28,156	49,150	171,024	12,573	154,437	518,680	40,729
1934	106,098	314,200	24,764	35,360	123,800	11,310	141,458	438,000	36,074
1935	143,977	453,300	38,151	116,003	394,100	32,485	259,980	847,400	70,636
1936	304,104	834,400	52,808	393,211	1,633,500	117,379	697,315	2,467,900	170,187
1937	292,790	976,000	73,191	585,400	1,756,200	139,595	878,190	2,732,200	212,786
1938	291,650	972,500	53,989	420,149	1,494,500	118,486	711,799	2,467,000	172,475
1939	464,655	1,516,400	66,319	518,511	1,754,300	98,943	983,166	3,270,700	165,262
1940	405,806	1,297,700	66,703	524,466	1,816,700	116,074	930,272	3,114,400	182,777
1941	415,137	1,341,000	91,041	518,421	1,792,500	107,589	933,558	3,133,500	198,630
1942	443,255	1,294,800	76,025	581,944	1,891,100	128,963	1,025,199	3,185,900	204,988
1943	593,821	1,640,000	155,800	527,616	1,585,350	201,556	1,121,437	3,225,350	357,356
1944	549,600	1,651,200	90,445	642,521	2,158,200	134,535	1,192,121	3,809,400	224,980
1945	698,990	2,091,300	275,962	(1)	1,385,900	228,161	(1)	3,477,200	504,123
1946	483,200	1,446,900	218,546	437,689	1,525,243	240,638	920,889	2,972,143	459,184
1947	257,749	957,400	95,527	282,121	1,024,392	161,447	539,870	1,981,792	256,974
1948	372,584	1,121,600	146,679	339,013	1,232,800	185,867	711,597	2,354,400	332,546
1949	220,559	748,800	113,395	274,543	978,570	173,120	495,102	1,727,370	286,515
1950	124,740	413,600	62,012	180,408	595,300	118,137	305,148	1,008,900	180,149
1951	122,848	413,400	62,675	104,375	350,700	85,690	227,223	764,100	148,365
1952	149,210	487,600	59,150	178,636	589,500	87,552	327,846	1,077,100	146,702
1953	140,576	465,000	62,744	120,464	473,722	92,744	261,040	938,722	155,488
1954	179,612	584,580	67,882	168,794	664,706	96,936	348,406	1,249,286	164,818
1955	145,658	503,696	60,562	248,911	1,006,644	137,962	394,569	1,510,340	198,524
1956	164,203	579,734	48,776	318,096	1,101,432	109,446	482,299	1,681,166	158,222
1957	136,452	468,205	42,805	294,135	1,029,475	89,574	430,587	1,497,680	132,379
1958	128,148	433,463	41,218	129,421	612,302	75,034	257,569	1,045,765	116,252
1959	140,770	492,468	47,447	195,673	678,744	77,532	336,443	1,171,212	124,979
1960	80,379	273,936	38,407	128,476	449,636	69,693	208,855	723,572	108,100
1961	66,822	236,445	33,111	111,872	352,544	65,220	178,694	588,989	98,331
1962	66,020	218,149	28,348	83,360	309,531	49,525	149,380	527,680	77,873
1963	38,711	132,564	25,807	59,363	215,454	56,018	98,074	348,018	81,825
1964	25,068	78,084	16,993	28,455	103,781	20,720	53,523	181,865	37,713

1/ DATA NOT AVAILABLE.

POTOMAC RIVER SHAD FISHERY, 1896-1964

YEAR	MARYLAND			VIRGINIA			TOTAL		
	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE
1896	233,238	874,643	$20,524	450,825	1,690,594	$43,084	684,063	2,565,237	$63,608
1901	146,000	547,500	14,800	648,462	2,431,733	104,566	794,462	2,979,233	119,366
1904	83,147	311,801	16,343	289,500	1,085,625	51,709	372,647	1,397,426	68,052
1909	31,158	116,843	9,232	172,813	648,049	44,500	203,971	764,892	53,732
1915	17,196	64,485	6,827	165,206	619,523	65,300	182,402	684,008	72,127
1919	94,512	354,420	56,833	449,957	1,687,339	275,564	544,469	2,041,759	332,397
1920	80,944	302,237	55,963	448,414	1,677,543	278,501	529,358	1,979,780	334,464
1921	49,681	138,207	25,191	356,191	1,022,231	182,179	405,872	1,160,438	207,370
1922	203,682	706,501	95,140	680,494	2,409,070	324,882	884,176	3,115,571	420,022
1923	93,619	308,729	52,917	257,927	878,653	145,702	351,546	1,187,382	198,619
1924	37,505	127,285	20,469	134,805	450,925	67,981	172,310	578,210	88,450
1925	46,008	157,786	35,310	158,574	538,846	128,088	204,582	696,632	163,398
1926	51,601	162,861	34,808	285,061	871,345	182,653	336,662	1,034,206	217,461
1927	30,720	103,728	17,894	191,601	582,853	95,931	222,321	686,581	113,825
1928	138,496	383,126	37,588	577,924	1,694,496	177,099	716,420	2,077,622	214,687
1929	68,613	225,797	22,676	248,640	826,487	118,913	317,253	1,052,284	141,589
1930	14,807	50,345	8,393	160,343	550,848	89,648	175,150	601,193	98,041
1931	100,417	337,518	24,431	525,082	1,723,518	169,074	625,499	2,061,036	193,505
1932	199,742	609,258	40,837	575,714	1,654,910	132,516	775,456	2,264,168	173,353
1933	51,037	175,965	15,482	560,388	1,661,658	133,632	611,425	1,837,623	149,114
1934	10,040	35,700	3,628	142,836	531,400	43,876	152,876	567,100	47,504
1935	24,065	82,171	8,357	175,581	549,000	47,434	199,646	631,171	55,791
1936	17,500	48,000	5,279	116,909	311,800	30,079	134,409	359,800	35,358
1937	15,736	43,500	4,104	148,357	391,400	36,228	164,093	434,900	40,332
1938	16,978	51,235	5,186	175,582	468,400	42,199	192,560	519,635	47,385
1939	15,086	44,503	3,920	129,100	384,000	38,400	144,186	428,503	42,320
1940	24,923	75,400	6,546	77,250	247,400	28,770	102,173	322,800	35,316
1941	13,228	38,800	2,942	119,530	332,500	19,341	132,758	371,300	22,283
1942	33,436	97,575	8,998	70,640	230,600	19,580	104,076	328,175	28,578
1944	17,490	49,000	6,447	260,690	834,000	95,043	278,180	883,000	101,490
1945	11,500	41,100	8,514	154,059	496,600	85,190	165,559	537,700	93,704
1946	19,258	62,400	10,601	151,985	473,700	107,512	171,243	536,100	118,113
1947	37,790	98,600	16,597	477,698	1,201,600	207,302	515,488	1,300,200	223,899
1948	40,300	108,300	15,855	233,460	613,000	97,363	273,760	721,300	113,218
1949	52,800	138,800	19,548	274,455	770,800	116,812	327,255	909,600	136,360
1950	32,900	97,700	15,686	294,479	833,900	125,450	327,379	931,600	141,136
1951	22,038	66,600	11,197	274,440	810,500	137,740	296,478	877,100	148,937
1952	49,990	148,800	22,310	342,864	1,012,600	152,695	392,854	1,161,400	175,005
1953	39,580	123,900	18,630	235,002	722,400	120,810	274,582	846,300	139,440
1954	30,480	91,100	13,117	203,060	606,200	108,367	233,540	697,300	121,484
1955	16,782	52,500	9,203	271,170	753,200	128,044	287,952	805,700	137,247
1956	23,798	71,400	7,543	210,790	650,500	88,265	234,588	721,900	95,808
1957	28,143	84,300	11,586	179,550	540,100	81,349	207,693	624,400	92,935
1958	16,453	48,800	7,977	40,483	118,500	20,918	56,936	167,300	28,895
1959	12,175	37,900	6,436	48,767	149,800	25,055	60,942	187,700	31,491
1960	18,230	47,400	7,143	53,453	142,000	21,105	71,683	189,400	28,248
1961	10,976	30,300	4,393	30,742	82,800	12,407	41,718	113,100	16,800
1962	23,821	66,900	10,062	69,866	196,100	27,077	93,687	263,000	37,139
1963	30,377	77,800	12,434	57,228	137,100	23,363	87,605	214,900	35,797
1964	26,275	76,200	8,996	137,135	398,100	25,997	163,410	474,300	34,993

NOTE:--THE NUMBER OF SHAD TAKEN IN THE POTOMAC RIVER IN 1878 WAS 186,000; IN 1880, 552,872; IN 1889, 868,900; IN 1890, 731,453; AND IN 1891, 621,977.

ATLANTIC AND GULF COASTS MENHADEN FISHERY

The menhaden is taken in greater quantities than any fish occurring off the Atlantic and Gulf Coasts of the United States. The Indians are known to have used menhaden for fertilizer before the settlement of North America by the white man. Colonists soon recognized the value of the fish for this purpose and the use of whole fish for fertilizer was continued into the nineteenth century. The production of menhaden oil is reported to have been undertaken in Rhode Island in 1812 and in Maine about 1850. Rapid growth of an industry for producing both menhaden scrap and oil occurred between 1865 and 1875. In recent years menhaden have been landed in greater volume than any other fish taken by U. S. fishermen. The total catch since the establishment of the United States has exceeded 64 billion pounds, more than the production of any other species. Nearly the entire catch of menhaden is now used in the manufacture of meal and solubles used for animal feeding, and oil used in the manufacture of margarine and a wide variety of industrial products and processes.

Data on the catch of menhaden and on the production of menhaden products are available for most of the years following 1872. Since menhaden are landed at relatively few plants, the collection of data on the catch and production of menhaden products is comparatively simple. It is therefore believed that the following data have a high degree of accuracy.

SUMMARY OF THE MENHADEN FISHERY, 1873-1964

YEAR	PLANTS	FISH RECEIVED	DRY SCRAP AND MEAL		ACIDULATED SCRAP	
	NUMBER	THOUSAND POUNDS	TONS	VALUE	TONS	VALUE
1873	62	266,459	-	-	36,299	(1)
1874	64	330,228	-	-	50,976	(1)
1875	60	377,429	-	-	53,625	(1)
1876	64	343,342	-	-	51,245	(1)
1877	56	393,720	5,700	(1)	49,744	(1)
1878	56	514,412	19,377	(1)	64,342	(1)
1879	60	426,833	29,563	(1)	37,496	(1)
1880	79	520,506	25,800	(1)	19,020	(1)
1881	97	304,309	25,027	(1)	7,592	(1)
1882	97	232,248	17,552	(1)	10,029	(1)
1883	78	411,019	34,216	(1)	10,920	(1)
1884	52	575,257	58,433	(1)	10,430	(1)
1885	50	321,074	33,910	(1)	7,225	(1)
1886	26	189,681	14,597	(1)	4,298	(1)
1887	28	223,488	17,262	(1)	5,368	(1)
1888	24	294,391	15,638	(1)	12,406	(1)
1889	29	372,064	24,359	(1)	25,859	(1)
1890	28	357,570	20,339	(1)	21,173	(1)
1891	27	237,943	12,608	(1)	15,069	(1)
1892	29	149,828	8,400	(1)	10,815	(1)
1893	33	245,492	13,150	(1)	15,465	(1)
1894	44	357,352	20,057	(1)	27,582	(1)
1895	42	309,370	18,682	(1)	21,965	(1)
1896	35	268,955	14,280	(1)	21,484	(1)
1897	41	391,483	18,430	(1)	34,372	(1)
1898	40	363,475	17,360	(1)	34,120	(1)
1899	(1)	(1)	(1)	(1)	(1)	(1)
1900	(1)	(1)	(1)	(1)	(1)	(1)
1901 2/	36	609,744	36,977	$909,505	48,853	$630,305
1902	(1)	(1)	(1)	(1)	(1)	(1)
1903	(1)	(1)	(1)	(1)	(1)	(1)
1904	(1)	(1)	(1)	(1)	(1)	(1)
1905	(1)	(1)	(1)	(1)	(1)	(1)
1906	(1)	(1)	(1)	(1)	(1)	(1)
1907	(1)	(1)	(1)	(1)	(1)	(1)
1908	(1)	(1)	(1)	(1)	(1)	(1)
1909	(1)	(1)	(1)	(1)	(1)	(1)
1910	(1)	(1)	(1)	(1)	(1)	(1)
1911	(1)	(1)	(1)	(1)	(1)	(1)
1912	48	3/711,435	50,885	1,532,994	37,635	605,171
1913	(1)	(1)	(1)	(1)	(1)	(1)

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF THE MENHADEN FISHERY, 1873-1964 - Continued

YEAR	PLANTS	FISH RECEIVED	DRY SCRAP AND MEAL		ACIDULATED SCRAP	
	NUMBER	THOUSAND POUNDS	TONS	VALUE	TONS	VALUE
1914	(1)	(1)	(1)	(1)	(1)	(1)
1915	(1)	(1)	(1)	(1)	(1)	(1)
1916	(1)	(1)	(1)	(1)	(1)	(1)
1917	(1)	306,146	20,825	(1)	16,316	(1)
1918	(1)	359,292	16,017	(1)	33,187	(1)
1919	(1)	438,520	15,103	(1)	47,915	(1)
1920	(1)	(1)	(1)	(1)	(1)	(1)
1921	40	691,132	37,858	$1,380,455	44,804	$905,640
1922	45	812,342	67,821	2,665,441	25,755	556,317
1923	50	743,895	43,452	2,029,406	44,935	1,064,870
1924	45	344,284	21,008	996,866	24,409	495,684
1925	43	532,118	30,167	1,519,458	41,463	1,102,051
1926	41	382,781	24,223	1,164,396	23,553	548,204
1927	39	392,763	26,417	1,406,915	19,984	566,590
1928	34	362,213	24,681	1,453,651	20,028	531,238
1929	37	442,443	33,041	1,625,694	23,089	622,544
1930	33	409,513	32,418	1,629,471	15,725	395,295
1931	27	236,432	21,093	701,541	8,771	136,393
1932	24	375,479	36,544	833,689	6,841	72,892
1933	30	357,726	31,453	962,612	9,481	173,280
1934	27	517,403	37,935	1,247,697	22,051	381,559
1935	27	434,386	30,416	932,685	29,890	524,870
1936	29	516,104	42,411	1,411,710	23,482	359,615
1937	32	529,202	35,801	1,581,219	31,600	618,104
1938	32	517,530	39,274	1,576,620	21,814	418,936
1939	33	574,825	52,950	2,224,920	15,853	265,850
1940	30	634,589	56,249	2,423,229	15,520	271,533
1941	29	775,087	75,316	4,008,355	11,029	242,792
1942	30	482,644	50,504	3,362,279	2,594	80,520
1943	25	615,554	65,357	4,548,025	1,555	58,857
1944	27	685,980	69,170	4,913,224	2,922	111,104
1945	24	759,074	77,451	5,483,377	1,577	62,200
1946	28	916,013	94,622	8,605,118	2,022	78,475
1947	31	948,156	98,602	10,883,852	632	26,863
1948	31	1,007,889	104,058	11,560,914	(4)	(4)
1949	31	1,072,630	113,393	17,813,339	(4)	(4)
1950	35	1,000,498	103,365	12,864,751	(4)	(4)
1951	35	1,103,915	115,464	13,879,523	(4)	(4)
1952	40	1,386,281	114,025	17,847,361	(4)	(4)
1953	36	1,683,406	174,752	21,767,205	-	-
1954	34	1,740,600	183,091	23,783,364	-	-
1955	35	1,848,299	190,628	25,457,512	-	-
1956	38	2,076,588	210,582	27,439,634	-	-
1957	41	1,681,580	172,388	21,725,888	-	-
1958	38	1,544,683	158,074	20,698,929	-	-
1959	40	2,193,864	223,893	26,391,987	-	-
1960	38	1,999,036	218,423	19,201,716	-	-
1961	35	2,290,936	247,551	25,852,498	-	-
1962	33	2,227,316	239,707	28,249,566	-	-
1963	32	1,787,638	184.205	22,263,320	-	-
1964	31	1,530,631	160,349	20,001,220	-	-

YEAR	OIL			SOLUBLES			TOTAL
	GALLONS	POUNDS	VALUE	TONS	POUNDS	VALUE	VALUE
1873	2,214,800	16,611,000	(1)	-	-	-	(1)
1874	3,372,847	25,296,352	(1)	-	-	-	(1)
1875	2,681,482	20,111,115	(1)	-	-	-	(1)
1876	2,992,000	22,440,000	(1)	-	-	-	(1)
1877	2,426,589	18,199,418	(1)	-	-	-	(1)
1878	3,809,233	28,569,248	(1)	-	-	-	(1)
1879	2,258,901	16,941,758	(1)	-	-	-	(1)
1880	2,034,940	15,262,050	(1)	-	-	-	(1)
1881	1,266,549	9,499,118	(1)	-	-	-	(1)
1882	2,021,316	15,159,870	(1)	-	-	-	(1)
1883	2,166,320	16,247,400	(1)	-	-	-	(1)
1884	3,722,927	27,921,952	(1)	-	-	-	(1)
1885	2,346,319	17,597,392	(1)	-	-	-	(1)
1886	1,805,544	13,541,580	(1)	-	-	-	(1)
1887	2,273,566	17,051,745	(1)	-	-	-	(1)
1888	2,051,128	15,383,460	(1)	-	-	-	(1)
1889	3,327,030	24,952,725	(1)	-	-	-	(1)
1890	2,939,217	22,044,128	(1)	-	-	-	(1)
1891	1,946,642	14,599,815	(1)	-	-	-	(1)
1892	1,329,644	9,972,330	(1)	-	-	-	(1)
1893	1,269,002	9,517,515	(1)	-	-	-	(1)
1894	1,999,506	14,996,295	(1)	-	-	-	(1)
1895	1,767,754	13,258,155	(1)	-	-	-	(1)
1896	1,741,530	13,061,475	(1)	-	-	-	(1)
1897	2,147,113	16,103,348	(1)	-	-	-	(1)

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF THE MENHADEN FISHERY, 1873-1964 - Continued

YEAR	OIL			SOLUBLES			TOTAL
	GALLONS	POUNDS	VALUE	TONS	POUNDS	VALUE	VALUE
1898	2,450,000	18,375,000	(1)	-	-	-	(1)
1899	(1)	(1)	(1)	-	-	-	(1)
1900	(1)	(1)	(1)	-	-	-	(1)
1901 2/	3,812,335	28,592,512	$933,679	-	-	-	$2,473,489
1902	(1)	(1)	(1)	-	-	-	(1)
1903	(1)	(1)	(1)	-	-	-	(1)
1904	(1)	(1)	(1)	-	-	-	(1)
1905	(1)	(1)	(1)	-	-	-	(1)
1906	3,004,050	22,530,375	(1)	-	-	-	(1)
1907	1,243,800	9,328,500	(1)	-	-	-	(1)
1908	3,096,850	23,226,375	(1)	-	-	-	(1)
1909	3,015,800	22,618,500	(1)	-	-	-	(1)
1910	3,778,600	28,339,500	(1)	-	-	-	(1)
1911	3,974,250	29,806,875	(1)	-	-	-	(1)
1912	6,651,203	49,884,022	1,551,990	-	-	-	3,690,155
1913	4,768,050	35,760,375	(1)	-	-	-	(1)
1914	3,563,650	26,727,375	(1)	-	-	-	(1)
1915	2,727,750	20,458,125	(1)	-	-	-	(1)
1916	4,011,500	30,086,250	(1)	-	-	-	(1)
1917	3,619,700	27,147,750	(1)	-	-	-	(1)
1918	3,943,100	29,573,250	(1)	-	-	-	(1)
1919	5,415,600	40,617,000	(1)	-	-	-	(1)
1920	5,842,300	43,817,250	(1)	-	-	-	(1)
1921	6,260,478	46,953,585	1,719,892	-	-	-	4,005,987
1922	7,102,677	53,270,078	2,904,833	-	-	-	6,126,591
1923	7,461,365	55,960,238	3,316,277	-	-	-	6,410,553
1924	3,923,905	29,429,288	1,817,626	-	-	-	3,310,176
1925	6,023,108	45,173,310	3,001,106	-	-	-	5,622,615
1926	3,942,821	29,571,158	1,729,160	-	-	-	3,441,760
1927	3,957,068	29,678,010	1,716,474	-	-	-	3,689,979
1928	3,585,569	26,891,768	1,455,376	-	-	-	3,440,265
1929	3,172,735	23,795,512	1,381,816	-	-	-	3,630,054
1930	3,191,265	23,934,488	648,954	-	-	-	2,673,720
1931	1,981,790	14,863,425	302,308	-	-	-	1,140,242
1932	2,997,098	22,478,235	273,486	-	-	-	1,180,067
1933	3,344,343	25,082,572	450,970	-	-	-	1,586,862
1934	3,612,364	27,092,730	705,657	-	-	-	2,334,913
1935	4,066,159	30,496,192	1,178,337	-	-	-	2,635,892
1936	4,880,879	36,606,592	1,249,708	-	-	-	3,021,033
1937	3,895,613	29,217,098	1,456,333	-	-	-	3,655,656
1938	4,189,129	31,418,468	1,173,667	-	-	-	3,169,223
1939	6,005,414	45,040,605	1,624,024	-	-	-	4,114,794
1940	5,774,671	43,310,032	1,304,720	-	-	-	3,999,482
1941	6,034,050	45,255,375	2,829,441	-	-	-	7,080,588
1942	5,128,760	38,465,700	3,200,129	-	-	-	6,642,928
1943	5,734,668	43,010,010	3,871,539	-	-	-	8,478,421
1944	6,067,111	45,503,332	3,725,498	-	-	-	8,749,826
1945	8,335,094	62,513,205	5,656,550	-	-	-	11,202,127
1946	9,758,648	73,189,860	9,033,032	-	-	-	17,716,625
1947	8,473,371	63,550,282	11,425,497	-	-	-	22,336,212
1948	8,763,939	65,729,542	10,132,179	-	-	-	21,693,093
1949	8,293,911	62,204,332	3,407,510	-	-	-	21,220,849
1950	10,209,958	76,574,685	5,866,554	-	-	-	18,731,305
1951	12,537,115	94,028,362	9,771,154	-	-	-	23,650,677
1952	12,888,646	96,664,845	5,785,395	-	-	-	23,632,756
1953	17,824,477	133,683,578	8,806,317	39,038	78,076,523	$3,592,551	34,166,073
1954	18,641,433	139,810,748	9,755,320	56,274	112,547,095	5,564,717	39,103,401
1955	21,232,141	159,241,058	12,195,454	61,938	123,876,901	4,396,642	42,049,608
1956	22,428,082	168,210,615	14,092,275	72,852	145,704,750	5,339,834	46,871,743
1957	15,797,919	118,484,392	9,466,198	69,399	138,797,027	5,615,490	36,807,576
1958	17,064,818	127,986,135	9,434,108	72,471	144,941,679	6,252,986	36,386,023
1959	20,628,278	154,712,085	10,743,781	108,079	216,158,510	5,852,514	42,988,282
1960	24,453,736	183,403,020	11,582,027	65,850	131,700,000	2,299,209	33,082,952
1961	31,355,570	235,166,775	12,913,447	73,305	146,610,000	3,142,397	41,908,342
1962	31,015,855	232,618,912	10,059,839	85,200	170,400,000	4,120,050	42,429,455
1963	21,630.273	167,634,616	9,853,302	74,831	149,662,000	4,485,957	36,602,579
1964	20,352,198	157,729,534	11,734,935	68,738	137,476,000	4,054,981	35,791,136

1/ DATA NOT AVAILABLE. 2/ DATA FOR CONNECTICUT ARE FOR 1900, WHILE THOSE FOR RHODE ISLAND, NEW YORK, DELAWARE, AND NORTH CAROLINA ARE FOR 1902. 3/ IN ADDITION 5,096,000 MISCELLANEOUS FISH WERE UTILIZED; THIS INCLUDES 180,000 IN CONNECTICUT AND NEW YORK, 4,900,000 IN MARYLAND AND VIRGINIA, 16,000 IN NORTH CAROLINA AND FLORIDA.
4/ A SMALL PRODUCTION OF ACIDULATED SCRAP HAS BEEN INCLUDED WITH DRY SCRAP AND MEAL.
NOTE:--THE FACTOR 7.75 HAS BEEN USED TO CONVERT GALLONS OF OIL TO POUNDS FOR 1963 AND 1964; 7.5 HAS BEEN USED FOR PRIOR YEARS.
SOURCE:--DATA FOR 1873 TO 1898, AND 1901 ARE FROM "AQUATIC PRODUCTS IN ARTS AND INDUSTRIES," BY CHARLES H. STEVENSON, REPORT OF THE COMMISSIONER OF FISHERIES, 1902; FOR 1906 TO 1911, 1913, 1914, AND 1920 FROM INFORMATION ON FILE IN THE BUREAU'S BRANCH OF FISHERY STATISTICS, WHICH WAS SUPPLIED BY AN IMPORTANT MENHADEN PRODUCTS BROKER; FOR 1912, FROM "THE MENHADEN INDUSTRY OF THE ATLANTIC COAST," BY ROBERT LEON GREER, BUREAU OF FISHERIES DOCUMENT NO. 811; FOR 1915 TO 1919, FROM "CHEMICAL TECHNOLOGY AND ANALYSIS OF OILS, FATS AND WAXES," BY DR. J. LEWKOWITSCH, M.A. F.I.C., SIXTH EDITION, VOL. 11; FOR 1921 TO 1938, "FISHERY INDUSTRIES OF THE UNITED STATES,"; FOR 1939 TO 1964, "FISHERY STATISTICS OF THE UNITED STATES,"; AND UNPUBLISHED BUREAU RECORDS.

FOR THE YEARS FOLLOWING 1920, INFORMATION COLLECTED IN THE SERVICE'S ANNUAL INDUSTRIAL FISHERIES SURVEYS HAS BEEN USED RATHER THAN THE SLIGHTLY MORE COMPLETE INFORMATION ASSEMBLED IN THE GENERAL CANVASS SURVEYS OF THE ATLANTIC AND GULF STATES SINCE RELATIVELY FEW COMPLETE GENERAL CANVASS SURVEYS WERE MADE FOR ALL AREAS DURING THIS PERIOD.

SUMMARY OF MENHADEN PURSE SEINE OPERATING UNITS, 1951 1/

ITEM	NEW ENGLAND			
	MAINE	MASSACHU-SETTS	RHODE ISLAND	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS. . . .	28	22	7	29
VESSELS, MOTOR	1	1	2	3
GROSS TONNAGE.	140	140	26	166
BOATS.	3	3	2	5
PURSE SEINES:				
NUMBER	1	1	2	3
LENGTH, YARDS.	250	375	420	795

ITEM	MIDDLE ATLANTIC			
	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS. . . .	251	360	585	1,171
VESSELS, MOTOR	9	14	23	45
GROSS TONNAGE.	2,499	2,738	4,218	9,232
BOATS.	27	42	69	135
PURSE SEINES:				
NUMBER	9	14	23	45
LENGTH, YARDS.	3,600	4,697	7,400	15,364

ITEM	CHESAPEAKE	SOUTH ATLANTIC			
	VIRGINIA	NORTH CAROLINA	SOUTH CAROLINA	FLORIDA, EAST COAST	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS. . . .	537	914	198	165	1,027
VESSELS, MOTOR	20	47	11	8	52
GROSS TONNAGE.	4,110	7,170	2,194	978	7,804
BOATS.	60	141	33	24	156
PURSE SEINES:					
NUMBER	20	47	11	8	52
LENGTH, YARDS.	7,500	18,525	4,400	3,200	20,550

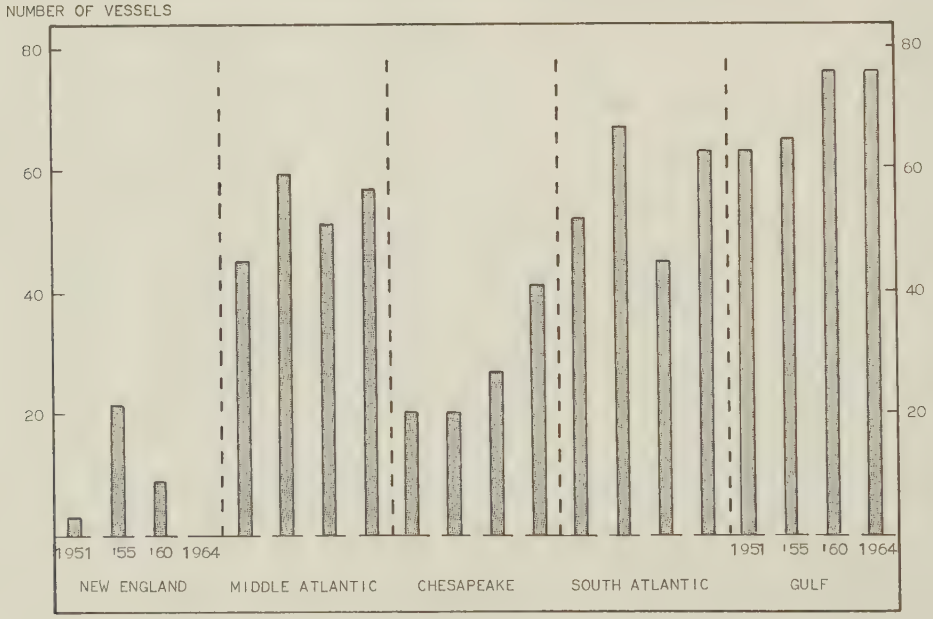
ITEM	GULF					GRAND TOTAL, EXCLU-SIVE OF DUPLI-CATION
	FLORIDA, WEST COAST	MISSIS-SIPPI	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICATION	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS. . . .	42	632	642	184	1,334	3,597
VESSELS, MOTOR	2	29	31	9	63	159
GROSS TONNAGE.	150	3,743	3,684	1,147	7,819	25,162
BOATS.	6	87	93	27	186	470
PURSE SEINES:						
NUMBER	2	29	31	9	63	159
LENGTH, YARDS.	750	10,900	11,789	3,550	23,989	59,890

1/ REVISED

SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY TONNAGE GROUPS, 1951

GROSS TONNAGE	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
0 - 9.	1	-	-	-	-	1
10 - 19.	1	-	-	-	-	1
20 - 29.	-	-	-	2	-	2
30 - 39.	-	-	-	2	-	2
60 - 69.	-	-	-	1	-	1
70 - 79.	-	-	-	1	5	6
80 - 89.	-	-	-	3	5	8
90 - 99.	-	1	-	3	6	9
100 - 109.	-	-	-	2	8	9
110 - 119.	-	1	-	4	11	13
120 - 129.	-	-	1	5	4	9
130 - 139.	-	1	1	3	4	7
140 - 149.	1	2	2	2	7	13
150 - 159.	-	3	1	3	4	8
160 - 169.	-	1	1	-	5	7
170 - 179.	-	1	-	4	-	4
180 - 189.	-	4	3	4	1	8
190 - 199.	-	19	2	5	1	22
220 - 229.	-	4	1	1	-	5
230 - 239.	-	-	1	-	1	2
240 - 249.	-	1	2	2	-	5
250 - 259.	-	-	1	1	1	3
260 - 269.	-	-	3	2	-	5
280 - 289.	-	2	-	1	-	2
290 - 299.	-	1	1	-	-	2
300 - 309.	-	2	-	-	-	2
320 - 329.	-	1	-	-	-	1
340 - 349.	-	1	-	-	-	1
350 - 359.	-	-	-	1	-	1
TOTAL VESSELS.	3	45	20	52	63	159
TOTAL GROSS TONNAGE. .	166	9,232	4,110	7,804	7,819	25,162

NUMBER OF MENHADEN PURSE SEINE VESSELS



LENGTH DISTRIBUTION OF THE MENHADEN FLEET, 1951

LENGTH IN FEET	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
37.	1	-	-	-	-	1
38.	1	-	-	-	-	1
44.	-	-	-	1	-	1
57.	-	-	-	1	-	1
59.	-	-	-	1	-	1
60.	-	-	-	1	-	1
67.	-	-	-	1	-	1
69.	-	-	-	-	6	6
70.	-	-	-	-	1	1
71.	-	-	-	-	1	1
72.	-	-	-	-	2	2
74.	-	-	-	-	1	1
75.	-	-	-	-	3	3
76.	-	-	-	-	1	1
77.	-	-	-	1	-	1
78.	-	-	-	-	2	2
79.	-	-	-	-	1	1
80.	-	-	-	-	2	2
81.	-	-	-	-	1	1
82.	-	-	-	1	5	5
85.	-	-	-	-	1	1
86.	-	-	-	1	1	2
87.	-	-	-	3	1	4
89.	1	-	1	-	-	2
90.	-	-	-	5	3	5
91.	-	2	-	-	5	7
93.	-	-	-	1	1	2
94.	-	-	-	-	2	2
95.	-	1	-	2	3	5
96.	-	-	-	1	-	1
97.	-	2	-	3	2	3
99.	-	-	-	-	1	1
101.	-	1	-	-	1	2
103.	-	1	-	-	1	2
104.	-	-	-	2	-	2
105.	-	1	-	2	1	3
106.	-	-	-	2	5	5
107.	-	-	-	2	2	4
108.	-	-	-	-	1	1
109.	-	1	-	1	-	1
112.	-	1	-	1	1	2
113.	-	1	-	1	2	3
116.	-	-	2	-	-	2
117.	-	1	-	-	-	1
118.	-	1	-	2	-	2
120.	-	-	2	2	1	5
121.	-	5	1	4	-	6
122.	-	-	2	-	-	2
124.	-	1	2	1	-	3
125.	-	3	2	6	2	11
126.	-	1	1	1	-	3
127.	-	1	1	-	-	2
128.	-	2	2	-	-	4
129.	-	1	1	-	-	2
130.	-	7	1	-	-	8
132.	-	-	1	-	-	1
133.	-	1	-	-	-	1
134.	-	3	-	1	-	3
139.	-	2	-	-	-	2
140.	-	1	-	-	-	1
146.	-	4	-	1	-	5
150.	-	-	1	-	-	1
TOTAL.	3	45	20	52	63	159

AGE DISTRIBUTION OF THE MENHADEN FLEET, 1951

YEAR BUILT	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
1874.	-	1	-	-	-	1
1876.	-	1	-	1	-	1
1877.	-	1	1	-	-	2
1892.	-	-	1	-	-	1
1893.	-	-	1	-	-	1
1897.	-	-	-	1	-	1
1899.	-	-	1	-	-	1
1900.	-	1	-	-	-	1
1901.	-	-	2	-	-	2
1902.	-	1	2	1	1	4
1903.	-	2	-	1	-	2
1904.	-	-	1	-	-	1
1905.	-	-	-	1	-	1
1908.	-	-	1	-	-	1
1909.	-	-	1	-	-	1
1910.	-	1	-	1	-	2
1911.	-	3	1	1	-	4
1912.	-	-	2	-	-	2
1913.	-	1	-	-	-	1
1914.	-	1	-	-	-	1
1917.	-	-	-	1	-	1
1918.	-	1	-	2	1	3
1919.	-	2	2	-	2	6
1920.	-	1	-	1	-	1
1922.	-	1	-	-	-	1
1923.	-	2	1	3	1	6
1924.	-	-	-	2	-	2
1925.	-	-	-	1	1	2
1926.	-	-	-	1	-	1
1930.	-	1	-	2	1	4
1933.	-	-	-	1	-	1
1935.	-	-	-	1	1	1
1936.	-	1	-	-	1	2
1937.	-	1	-	1	1	2
1938.	-	1	-	1	-	1
1940.	-	-	1	-	-	1
1941.	-	1	1	2	4	7
1942.	1	1	-	7	9	15
1943.	-	3	1	9	2	11
1944.	-	-	-	-	3	3
1945.	-	-	-	1	1	2
1946.	-	-	-	-	6	6
1947.	1	-	-	-	6	7
1948.	1	2	-	4	8	13
1949.	-	7	-	3	8	15
1950.	-	4	-	2	5	10
1951.	-	3	-	-	1	4
TOTAL	3	45	20	52	63	159

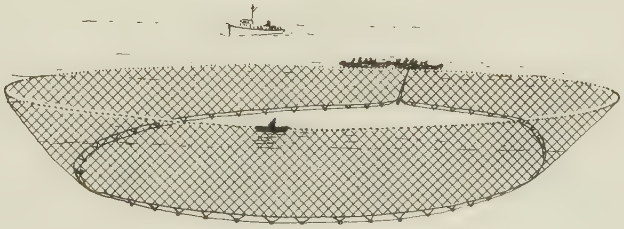
SUMMARY OF MENHADEN PURSE SEINE OPERATING UNITS, 1952 [1]

ITEM	NEW ENGLAND			MIDDLE ATLANTIC			
	MASSACHUSETTS	RHODE ISLAND	TOTAL, EXCLUSIVE OF DUPLICATION	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS. . . .	42	26	68	252	562	462	1,251
VESSELS, MOTOR	2	4	6	9	21	18	47
GROSS TONNAGE.	270	136	406	2,520	3,975	3,627	9,899
BOATS.	6	5	11	27	63	54	141
PURSE SEINES:							
NUMBER	2	4	6	9	21	18	47
LENGTH, YARDS.	750	1,020	1,770	3,600	6,780	5,800	15,860

ITEM	CHESAPEAKE	SOUTH ATLANTIC			
	VIRGINIA	NORTH CAROLINA	SOUTH CAROLINA	FLORIDA, EAST COAST	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS. . . .	517	1,020	160	210	1,129
VESSELS, MOTOR	18	50	9	10	55
GROSS TONNAGE.	3,715	8,082	1,879	1,238	8,727
BOATS.	54	150	27	30	165
PURSE SEINES:					
NUMBER	18	50	9	10	55
LENGTH, YARDS.	6,750	19,500	3,600	4,000	21,500

ITEM	GULF					GRAND TOTAL, EXCLUSIVE OF DUPLICATION
	FLORIDA, WEST COAST	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICATION	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS. . . .	108	704	702	175	1,483	3,810
VESSELS, MOTOR..	6	31	33	8	68	167
GROSS TONNAGE.	456	4,278	4,190	1,031	8,752	26,695
BOATS.	18	93	99	24	204	494
PURSE SEINES:						
NUMBER	6	31	33	8	68	167
LENGTH, YARDS.	2,175	11,425	12,800	3,175	25,825	61,070

[1] REVISED.



Menhaden purse seine

SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY TONNAGE GROUPS, 1952 [1]

GROSS TONNAGE	NEW ENGLAND	MIDDLE ATLANTIC	CHESA-PEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
10 - 19	1	-	-	-	-	1
20 - 29	1	-	-	2	-	3
30 - 39	-	-	-	2	-	2
40 - 49	1	-	-	-	-	1
50 - 59	1	-	-	-	-	1
60 - 69	-	-	-	1	2	3
70 - 79	-	-	-	1	4	5
80 - 89	-	-	-	2	2	4
90 - 99	-	1	-	2	6	9
100 - 109	-	-	-	2	9	11
110 - 119	-	1	-	3	9	11
120 - 129	-	-	1	5	4	9
130 - 139	1	-	1	2	4	6
140 - 149	1	-	2	3	10	15
150 - 159	-	3	-	3	6	9
160 - 169	-	1	1	-	7	9
170 - 179	-	5	-	7	1	8
180 - 189	-	4	3	4	1	8
190 - 199	-	19	2	7	1	22
220 - 229	-	3	1	1	-	5
230 - 239	-	-	1	-	1	2
240 - 249	-	2	1	2	-	5
250 - 259	-	-	1	1	1	3
260 - 269	-	-	3	2	-	5
280 - 289	-	2	-	2	-	2
290 - 299	-	-	1	-	-	1
300 - 309	-	2	-	-	-	2
310 - 319	-	1	-	-	-	1
320 - 329	-	1	-	-	-	1
340 - 349	-	1	-	-	-	1
350 - 359	-	1	-	1	-	2
TOTAL VESSELS	6	47	18	55	68	167
TOTAL GROSS TONNAGE	406	9,899	3,715	8,727	8,752	26,695

[1] REVISED.

SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY HORSEPOWER, 1952 [1]

HORSEPOWER	NEW ENGLAND	MIDDLE ATLANTIC	CHESA-PEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
50 - 99	-	-	-	2	1	3
100 - 149	1	-	-	5	4	10
150 - 199	1	-	-	1	10	12
200 - 249	1	3	-	8	9	18
250 - 299	-	2	1	1	5	8
300 - 349	-	6	4	4	14	26
350 - 399	-	2	1	-	2	5
400 - 449	2	3	1	9	5	14
450 - 499	-	3	1	3	-	5
500 - 599	1	7	5	8	15	31
600 - 699	-	7	1	5	1	9
700 - 799	-	-	1	-	-	1
800 - 899	-	13	2	2	-	15
1000 - 1499	-	1	1	6	1	9
1500 - OVER	-	-	-	1	1	1
TOTAL	6	47	18	55	68	167

[1] REVISED.

LENGTH DISTRIBUTION OF THE MENHADEN FLEET, 1952 [1]

LENGTH IN FEET	NEW ENGLAND	MIDDLE ATLANTIC	CHESA-PEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
43. . . .	1	-	-	-	-	1
44. . . .	-	-	-	1	-	1
51. . . .	-	-	-	1	-	1
54. . . .	1	-	-	-	-	1
57. . . .	1	-	-	1	-	2
58. . . .	1	-	-	-	-	1
60. . . .	-	-	-	1	-	1
67. . . .	-	-	-	1	1	2
69. . . .	-	-	-	-	4	4
70. . . .	-	-	-	-	1	1
71. . . .	-	-	-	-	1	1
72. . . .	-	-	-	-	2	2
74. . . .	-	-	-	-	2	2
75. . . .	-	-	-	-	2	2
76. . . .	-	-	-	-	1	1
77. . . .	-	-	-	1	-	1
78. . . .	-	-	-	-	1	1
80. . . .	-	-	-	-	2	2
81. . . .	-	-	-	-	1	1
82. . . .	-	-	-	-	3	3
85. . . .	-	-	-	-	2	2
86. . . .	-	-	-	1	1	2
87. . . .	-	-	-	3	1	4
88. . . .	-	-	-	-	2	2
89. . . .	2	-	1	-	-	2
90. . . .	-	-	-	3	3	5
91. . . .	-	1	-	1	5	7
93. . . .	-	-	-	1	1	2
94. . . .	-	-	-	-	2	2
95. . . .	-	-	-	2	3	5
96. . . .	-	-	-	1	-	1
97. . . .	-	1	-	3	3	4
99. . . .	-	-	-	-	1	1
100. . . .	-	-	-	-	1	1
101. . . .	-	1	-	-	1	2
103. . . .	-	-	-	-	1	1
104. . . .	-	-	-	1	-	1
105. . . .	-	-	-	1	4	5
106. . . .	-	-	-	3	4	5
107. . . .	-	-	-	2	2	4
108. . . .	-	-	-	-	1	1
109. . . .	-	2	-	1	1	2
110. . . .	-	-	-	-	1	1
111. . . .	-	-	-	-	1	1
112. . . .	-	1	-	1	1	2
113. . . .	-	1	-	1	3	4
116. . . .	-	1	1	-	-	2
118. . . .	-	1	-	2	-	2
120. . . .	-	5	2	5	1	8
121. . . .	-	5	1	4	-	6
122. . . .	-	-	2	-	-	2
124. . . .	-	1	2	1	-	3
125. . . .	-	2	2	6	1	10
126. . . .	-	1	1	1	-	3
127. . . .	-	2	-	-	-	2
128. . . .	-	2	2	-	-	4
129. . . .	-	1	1	1	-	2
130. . . .	-	7	1	-	-	8
132. . . .	-	-	1	-	-	1
133. . . .	-	1	-	1	-	1
134. . . .	-	3	-	2	-	3
139. . . .	-	2	-	-	-	2
140. . . .	-	1	-	-	-	1
143. . . .	-	1	-	-	-	1
146. . . .	-	3	-	1	-	4
150. . . .	-	1	1	-	-	2
TOTAL. .	6	47	18	55	68	167

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[1] REVISED.

AGE DISTRIBUTION OF THE MENHADEN FLEET, 1952 1/

YEAR BUILT	NEW ENGLAND	MIDDLE ATLANTIC	CHESA-PEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
1874 . . .	-	1	-	-	-	1
1877 . . .	-	1	1	-	-	2
1879 . . .	-	-	-	-	1	1
1892 . . .	-	-	1	-	-	1
1893 . . .	-	1	-	-	-	1
1897 . . .	-	-	-	1	-	1
1899 . . .	-	-	1	-	-	1
1901 . . .	-	-	2	-	-	2
1902 . . .	-	1	2	1	1	4
1903 . . .	-	2	-	2	-	2
1904 . . .	-	-	1	-	-	1
1905 . . .	-	-	-	1	-	1
1908 . . .	-	-	1	-	-	1
1909 . . .	1	1	-	-	-	2
1910 . . .	-	1	-	-	-	1
1911 . . .	-	3	1	2	-	4
1912 . . .	-	1	2	-	-	3
1913 . . .	-	-	-	1	-	1
1914 . . .	-	1	-	-	-	1
1917 . . .	-	-	-	1	-	1
1918 . . .	-	2	-	2	2	4
1919 . . .	-	1	2	-	1	4
1920 . . .	-	2	-	1	-	2
1922 . . .	-	1	-	-	-	1
1923 . . .	-	2	1	1	1	5
1924 . . .	-	-	-	2	-	2
1925 . . .	-	-	-	1	1	2
1926 . . .	-	-	-	1	-	1
1930 . . .	-	1	-	2	1	4
1933 . . .	-	-	-	1	-	1
1935 . . .	-	-	-	-	1	1
1936 . . .	-	1	-	-	3	4
1937 . . .	-	1	-	1	2	3
1938 . . .	-	1	-	1	2	3
1939 . . .	-	-	-	-	1	1
1940 . . .	-	-	1	-	1	2
1941 . . .	1	-	1	3	4	7
1942 . . .	1	-	-	7	8	14
1943 . . .	-	1	1	9	2	11
1944 . . .	-	-	-	-	2	2
1945 . . .	1	-	-	1	1	3
1946 . . .	-	-	-	-	5	5
1947 . . .	-	-	-	1	9	10
1948 . . .	-	4	-	4	6	10
1949 . . .	-	10	-	6	7	17
1950 . . .	-	4	-	2	4	9
1951 . . .	-	3	-	-	1	4
1952 . . .	2	-	-	-	1	3
TOTAL . .	6	47	18	55	68	167

1/ REVISED.

MENHADEN

SUMMARY OF MENHADEN PURSE SEINE OPERATING UNITS, 1955 [1/]

ITEM	NEW ENGLAND			
	MAINE	MASSACHUSETTS	RHODE ISLAND	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS.	5	175	62	234
VESSELS, MOTOR	1	13	8	21
GROSS TONNAGE.	17	943	301	1,208
BOATS.	2	27	16	43
PURSE SEINES:				
NUMBER	1	13	8	21
LENGTH, YARDS.	350	5,840	2,430	8,320

ITEM	MIDDLE ATLANTIC			
	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS.	308	668	622	1,598
VESSELS, MOTOR	11	25	23	59
GROSS TONNAGE.	2,873	4,364	4,363	11,600
BOATS.	33	75	69	127
PURSE SEINES:				
NUMBER	11	25	23	59
LENGTH, YARDS.	4,400	8,520	8,030	20,950

ITEM	CHESAPEAKE	SOUTH ATLANTIC			
	VIRGINIA	NORTH CAROLINA	SOUTH CAROLINA	FLORIDA, EAST COAST	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS.	579	1,212	220	404	1,448
VESSELS, MOTOR	20	57	10	18	67
GROSS TONNAGE.	3,794	10,489	1,817	2,372	11,661
BOATS.	60	171	30	54	201
PURSE SEINES:					
NUMBER	20	57	10	18	67
LENGTH, YARDS	7,425	22,800	4,000	7,200	26,800

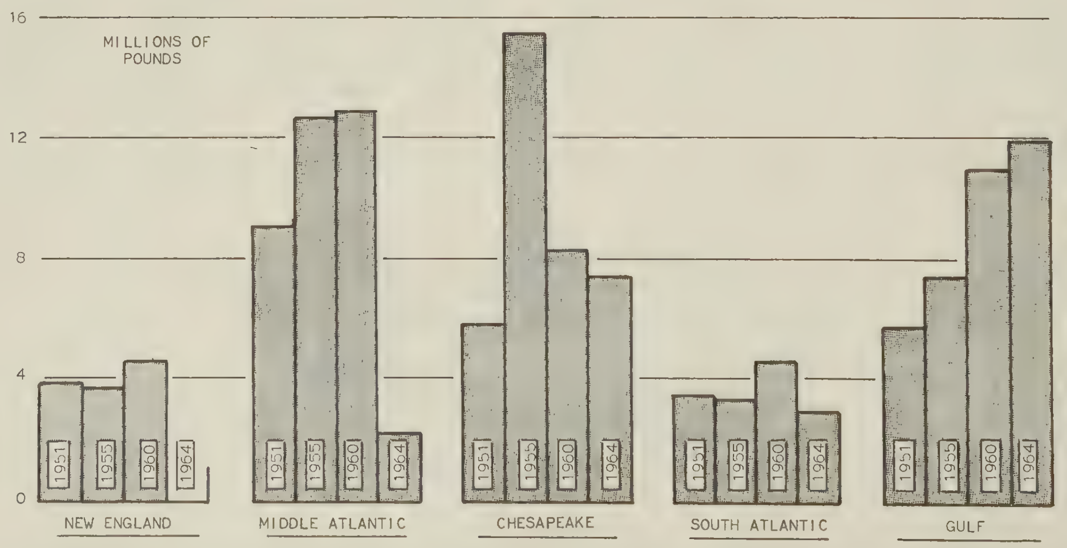
ITEM	GULF					GRAND TOTAL, EXCLUSIVE OF DUPLICATION
	FLORIDA, WEST COAST	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICATION	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS.	75	369	882	286	1,500	4,735
VESSELS, MOTOR	3	17	37	13	65	204
GROSS TONNAGE.	512	2,588	5,469	1,669	9,442	32,164
BOATS.	9	51	111	39	195	593
PURSE SEINES:						
NUMBER	3	17	37	13	65	204
LENGTH, YARDS.	1,200	6,400	14,693	4,818	25,219	78,774

[1/] REVISED.

SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY TONNAGE GROUPS, 1955

GROSS TONNAGE	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
10 - 19.	3	-	-	-	-	3
20 - 29.	2	1	-	-	-	3
30 - 39.	2	1	-	2	-	5
40 - 49.	2	-	-	-	-	2
50 - 59.	2	1	-	2	-	5
60 - 69.	4	-	1	3	-	7
70 - 79.	3	-	-	2	1	6
90 - 99.	-	-	-	1	2	3
100 - 109.	-	1	-	-	7	8
110 - 119.	2	2	-	2	6	12
120 - 129.	-	-	1	4	5	9
130 - 139.	1	-	-	3	5	9
140 - 149.	-	3	3	4	15	24
150 - 159.	-	1	1	4	4	10
160 - 169.	-	2	1	-	9	12
170 - 179.	-	6	-	4	-	7
180 - 189.	-	4	3	4	4	12
190 - 199.	-	22	3	13	4	31
200 - 209.	-	1	-	2	1	2
220 - 229.	-	4	2	4	1	9
230 - 239.	-	-	1	1	-	2
240 - 249.	-	1	2	3	-	6
250 - 259.	-	-	-	2	1	2
260 - 269.	-	1	2	4	-	6
280 - 289.	-	2	-	3	-	3
290 - 299.	-	1	-	-	-	1
300 - 309.	-	2	-	-	-	2
310 - 319.	-	1	-	-	-	1
320 - 329.	-	1	-	-	-	1
340 - 349.	-	1	-	-	-	1
TOTAL VESSELS.	21	59	20	67	65	204
TOTAL GROSS TONNAGE. .	1,208	11,600	3,794	11,661	9,442	32,164

AVERAGE CATCH PER MENHADEN PURSE SEINE VESSEL



LENGTH DISTRIBUTION OF THE MENHADEN FLEET, 1955

LENGTH IN FEET	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
39	1	-	-	-	-	1
41	-	1	-	-	-	1
44	1	-	-	-	-	1
47	1	-	-	-	-	1
50	-	1	-	-	-	1
51	1	-	-	-	-	1
52	2	-	-	-	-	2
55	1	-	-	-	-	1
56	1	-	-	-	-	1
57	1	-	-	1	-	2
58	1	-	-	-	-	1
60	-	-	-	1	-	1
61	1	1	-	-	-	2
64	1	-	-	1	-	2
67	-	-	-	3	-	3
74	-	-	-	1	-	1
75	1	-	1	-	1	2
77	-	1	-	-	-	1
78	1	-	-	-	-	1
80	3	-	-	-	1	4
81	1	-	-	-	1	2
82	-	-	-	-	2	2
83	-	-	-	-	1	1
85	-	-	-	-	3	3
86	-	-	-	1	-	1
87	-	-	-	-	3	3
88	-	-	-	-	1	1
89	1	-	1	-	-	2
90	-	-	-	2	3	5
91	-	-	-	2	4	6
92	-	-	-	-	1	1
93	-	-	-	1	-	1
94	-	-	-	-	2	2
95	-	1	-	2	2	4
96	-	-	-	1	-	1
97	-	-	-	2	2	4
99	-	-	-	-	1	1
100	-	-	-	-	1	1
101	-	1	-	-	1	2
103	-	1	-	-	1	2
104	2	-	-	1	1	4
105	-	-	-	1	5	6
106	-	1	-	2	6	9
107	-	-	-	3	4	6
108	-	-	-	-	2	2
109	-	2	1	3	1	4
110	-	-	-	-	1	1
112	-	1	-	1	-	2
113	-	-	-	1	2	3
114	-	-	-	-	1	1
115	-	-	-	1	1	1
116	-	-	2	-	-	2
117	-	1	-	-	-	1
118	-	1	-	2	-	2
120	-	5	2	2	1	8
121	-	5	1	3	-	7
122	-	-	2	-	-	2
124	-	2	2	3	-	5
125	-	3	1	8	3	12
126	-	2	1	4	-	6
127	-	2	1	2	-	3
128	-	1	2	-	-	3
129	-	1	-	1	-	1
130	-	10	1	1	-	11
132	-	-	1	-	-	1
133	-	1	-	-	-	1
134	-	4	-	2	-	4
139	-	2	-	-	1	3
140	-	3	-	2	1	4
141	-	-	-	1	1	2
142	-	-	-	4	2	4
143	-	1	-	-	-	1
144	-	-	-	-	1	1
146	-	4	-	1	-	5
150	-	-	1	-	-	1
TOTAL	21	59	20	67	65	204

AGE DISTRIBUTION OF THE MENHADEN FLEET, 1955

YEAR BUILT	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
1874.	-	1	-	-	-	1
1876.	-	-	-	-	1	1
1877.	-	1	1	-	1	3
1879.	-	-	-	-	1	1
1892.	-	-	1	-	-	1
1893.	-	-	1	-	-	1
1894.	1	-	-	-	-	1
1897.	-	1	-	1	-	2
1899.	-	-	1	-	-	1
1900.	-	1	-	-	-	1
1901.	-	-	2	-	-	2
1902.	-	1	2	1	-	4
1903.	1	3	-	-	-	4
1904.	-	-	1	-	-	1
1905.	-	-	-	1	-	1
1908.	-	-	1	-	-	1
1909.	-	-	1	-	-	1
1910.	-	1	-	-	-	1
1911.	-	2	1	2	-	3
1912.	-	1	2	-	-	3
1913.	-	2	-	-	-	2
1914.	-	1	-	-	-	1
1917.	2	-	-	1	-	3
1918.	-	2	-	3	2	6
1919.	1	2	2	1	-	5
1920.	-	1	1	1	-	1
1921.	-	1	-	-	-	1
1922.	-	1	-	-	-	1
1923.	-	2	-	2	1	4
1924.	-	-	-	2	-	2
1925.	1	-	1	-	1	2
1930.	1	-	-	-	2	3
1933.	-	-	-	1	-	1
1935.	-	-	-	1	-	1
1936.	-	1	-	-	1	2
1937.	-	-	-	1	-	1
1938.	-	1	-	1	-	1
1939.	-	-	-	1	-	1
1940.	-	-	1	1	-	2
1941.	3	-	-	2	3	8
1942.	-	1	1	6	7	14
1943.	-	3	-	13	2	15
1944.	-	1	-	2	3	5
1945.	3	-	-	1	1	5
1946.	-	1	-	-	4	5
1947.	1	-	-	-	9	10
1948.	-	4	-	3	5	9
1949.	-	9	-	5	7	17
1950.	-	4	-	1	3	7
1951.	2	4	-	2	1	7
1952.	4	-	-	-	-	4
1953.	-	2	-	2	2	5
1954.	1	2	-	1	4	8
1955.	-	2	-	8	4	11
TOTAL	21	59	20	67	65	204

SUMMARY OF MENHADEN PURSE SEINE OPERATING UNITS, 1957 [1]

ITEM	NEW ENGLAND		
	MASSACHUSETTS	RHODE ISLAND	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS. . .	245	64	277
VESSELS, MOTOR	16	6	20
GROSS TONNAGE.	1,421	326	1,592
BOATS.	32	12	40
PURSE SEINES:			
NUMBER	16	6	20
LENGTH, YARDS.	8,025	2,325	9,325

ITEM	MIDDLE ATLANTIC			
	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS. . .	280	770	625	1,617
VESSELS, MOTOR	10	30	23	61
GROSS TONNAGE.	2,704	5,372	4,423	12,069
BOATS.	30	86	69	179
PURSE SEINES:				
NUMBER	10	30	23	61
LENGTH, YARDS.	4,000	10,150	8,190	21,600

ITEM	CHESAPEAKE	SOUTH ATLANTIC			
	VIRGINIA	NORTH CAROLINA	SOUTH CAROLINA	FLORIDA, EAST COAST	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS. . .	504	1,765	25	264	1,988
VESSELS, MOTOR	24	70	1	12	80
GROSS TONNAGE.	4,829	14,577	115	1,821	15,999
BOATS.	72	210	3	34	239
PURSE SEINES:					
NUMBER	24	70	1	12	80
LENGTH, YARDS.	8,880	28,000	400	4,800	32,000

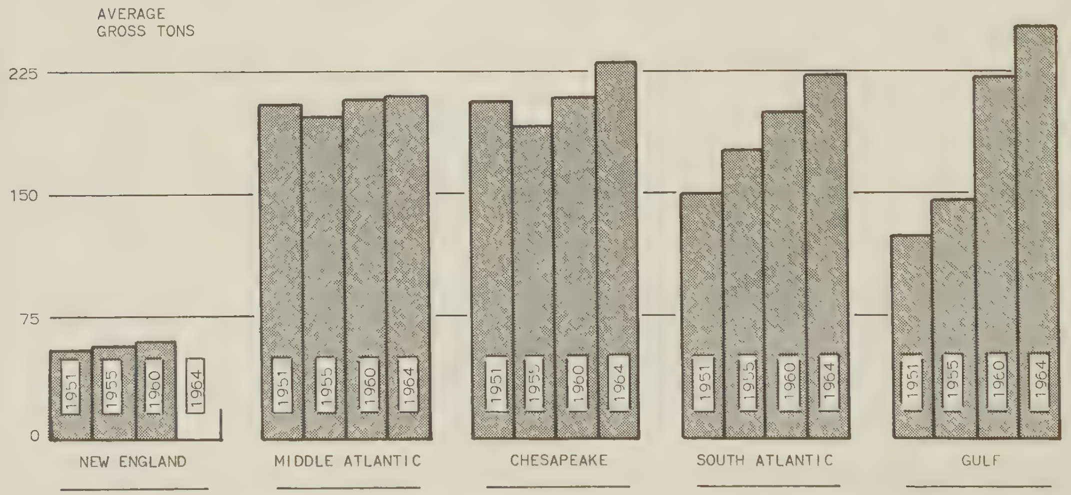
ITEM	GULF				GRAND TOTAL, EXCLUSIVE OF DUPLICATION
	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICATION	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS. . .	806	928	358	1,863	5,167
VESSELS, MOTOR	36	38	14	78	219
GROSS TONNAGE.	7,062	6,035	1,976	13,291	37,891
BOATS.	108	114	42	234	646
PURSE SEINES:					
NUMBER	36	38	14	78	219
LENGTH, YARDS.	13,550	15,000	5,996	30,738	86,631

[1] REVISED.

SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY TONNAGE GROUPS, 1957

GROSS TONNAGE	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
0 - 9	-	1	-	-	-	1
20 - 29	2	1	-	-	-	3
30 - 39	-	-	-	1	-	1
40 - 49	3	1	-	1	-	5
50 - 59	2	-	-	2	-	4
60 - 69	2	-	-	2	1	5
70 - 79	4	-	-	1	-	5
80 - 89	1	-	-	-	-	1
90 - 99	-	-	-	1	1	2
100 - 109	-	1	-	-	5	6
110 - 119	2	1	1	4	5	10
120 - 129	1	-	1	3	3	8
130 - 139	2	-	-	2	8	12
140 - 149	-	2	4	3	15	23
150 - 159	1	1	2	4	3	10
160 - 169	-	1	1	1	8	10
170 - 179	-	6	-	4	4	11
180 - 189	-	4	3	5	8	16
190 - 199	-	27	2	13	8	38
200 - 209	-	4	-	1	-	1
220 - 229	-	1	1	7	4	10
230 - 239	-	1	1	3	1	3
240 - 249	-	1	2	4	1	7
250 - 259	-	1	1	7	1	7
260 - 269	-	1	3	6	1	8
280 - 289	-	2	1	2	-	3
290 - 299	-	1	1	-	-	2
300 - 309	-	2	-	-	-	2
310 - 319	-	1	-	-	-	1
340 - 349	-	1	-	-	-	1
390 - 399	-	-	-	1	-	1
600 - 609	-	-	-	1	1	1
610 - 619	-	-	-	1	1	1
TOTAL VESSELS	20	62	24	80	79	219
TOTAL GROSS TONNAGE	1,592	1,268	4,829	15,999	13,481	37,891

AVERAGE GROSS TONS PER MENHADEN PURSE SEINE VESSEL



LENGTH DISTRIBUTION OF THE MENHADEN FLEET, 1957

LENGTH IN FEET	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
35.	-	1	-	-	-	1
41.	-	1	-	-	-	1
52.	1	-	-	-	-	1
53.	-	1	-	-	-	1
55.	1	-	-	-	-	1
56.	1	-	-	-	-	1
57.	1	-	-	-	-	1
58.	-	-	-	1	-	1
60.	-	-	-	1	-	1
61.	1	-	-	-	-	1
64.	1	-	-	1	-	2
65.	-	-	-	1	-	1
67.	-	-	-	2	-	2
69.	1	-	-	-	-	1
71.	1	-	-	-	-	1
74.	-	-	-	-	1	1
75.	-	-	-	-	1	1
77.	-	1	-	1	-	1
78.	1	-	-	-	-	1
80.	3	-	-	-	-	3
81.	1	-	-	-	-	1
84.	1	-	-	-	-	1
85.	-	-	-	-	2	2
86.	-	-	-	1	-	1
87.	-	-	-	-	1	1
88.	1	-	-	-	1	2
89.	1	1	1	-	-	3
90.	1	-	-	2	2	5
91.	-	-	-	1	4	5
92.	1	-	-	-	1	2
93.	-	-	-	1	-	1
94.	-	-	-	-	2	2
95.	-	1	-	2	4	6
97.	-	-	1	2	1	3
99.	-	-	-	-	1	1
100.	-	-	-	-	2	2
101.	-	-	1	1	1	2
103.	-	-	-	-	1	1
104.	2	-	-	1	1	4
105.	-	-	-	1	10	11
106.	-	1	-	2	7	9
107.	-	1	-	2	4	7
108.	-	-	-	-	2	2
109.	-	1	-	1	-	2
110.	-	-	-	-	1	1
111.	-	-	-	1	-	1
112.	-	1	-	1	1	2
113.	-	-	-	1	2	3
114.	-	-	1	1	1	2
115.	-	-	-	1	-	1
116.	-	1	2	2	-	3
117.	-	-	1	-	-	1
118.	-	1	-	1	-	1
120.	-	5	2	2	-	7
121.	-	6	1	4	-	7
122.	-	-	2	-	2	4
124.	-	3	2	5	6	11
125.	-	3	1	13	6	17
126.	-	2	1	5	1	8
127.	-	3	1	3	-	4
128.	-	1	2	-	-	3
129.	-	1	1	2	-	2
130.	-	11	1	-	-	12
132.	-	-	1	1	-	1
133.	-	1	-	-	-	1
134.	-	3	-	2	-	3
135.	-	-	-	1	1	1
139.	-	1	-	1	2	3
140.	-	4	-	4	1	5
141.	-	1	-	1	2	3
142.	-	1	-	2	2	4
143.	-	1	-	-	-	1
146.	-	3	1	-	-	4
150.	-	-	1	-	-	1
193.	-	-	-	1	1	1
194.	-	-	-	1	1	1
TOTAL.	20	62	24	80	79	219

AGE DISTRIBUTION OF THE MENHADEN FLEET, 1957

YEAR BUILT	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
1874.	-	1	-	-	-	1
1876.	-	-	-	-	1	1
1877.	-	-	1	-	1	2
1879.	-	-	-	-	1	1
1892.	-	-	1	1	-	1
1893.	-	-	1	-	-	1
1897.	-	-	1	-	-	1
1899.	-	-	1	-	-	1
1900.	-	-	1	-	-	1
1901.	-	-	2	1	-	2
1902.	-	1	2	1	1	4
1903.	-	3	-	-	-	3
1904.	-	-	1	1	-	1
1908.	-	-	1	-	-	1
1909.	-	-	1	-	-	1
1910.	-	1	-	-	-	1
1911.	-	2	1	2	-	3
1912.	-	1	2	-	-	3
1913.	-	1	-	-	-	1
1914.	-	1	-	-	-	1
1917.	2	-	-	1	-	3
1918.	-	2	-	2	1	5
1919.	1	1	2	-	-	4
1920.	-	1	-	1	-	1
1922.	-	1	-	-	-	1
1923.	-	1	1	2	-	2
1924.	-	-	-	1	-	1
1925.	-	-	-	-	1	1
1926.	1	-	-	-	-	1
1927.	-	1	-	1	-	1
1930.	2	1	1	2	-	5
1933.	-	-	-	1	-	1
1935.	-	-	-	1	-	1
1936.	-	-	1	1	1	2
1937.	-	-	-	1	1	2
1938.	-	1	-	1	-	1
1939.	-	-	-	-	1	1
1940.	1	-	1	1	-	2
1941.	4	-	-	2	1	7
1942.	-	1	1	6	9	16
1943.	-	4	1	14	2	16
1944.	2	1	-	5	4	10
1945.	2	1	-	1	-	4
1946.	-	1	-	-	5	6
1947.	1	1	-	1	7	9
1948.	-	4	-	3	5	9
1949.	-	10	-	4	6	16
1950.	-	4	-	2	3	7
1951.	1	4	-	2	1	6
1952.	2	-	-	1	-	3
1953.	-	2	-	2	2	5
1954.	1	2	-	1	6	9
1955.	-	5	-	8	5	12
1956.	-	2	-	2	7	10
1957.	-	-	-	4	7	8
TOTAL	20	62	24	80	79	219

SUMMARY OF OYSTER CATCH, BY SPECIES, 1921-64

(THOUSANDS OF POUNDS)

YEAR	EASTERN				
	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1921	(1)	26,420	(1)	(1)	(1)
1922	(1)	(1)	(1)	(1)	(1)
1923	(1)	(1)	(1)	2/7,892	2/11,868
1924	7,478	(1)	(1)	(1)	(1)
1925	(1)	(1)	48,383	(1)	(1)
1926	(1)	24,926	(1)	(1)	(1)
1927	(1)	(1)	(1)	2/6,705	2/17,002
1928	4,616	(1)	(1)	2/7,071	2/16,169
1929	5,957	29,214	33,138	2/6,404	2/14,605
1930	9,432	21,516	36,724	5,895	12,688
1931	4,066	21,546	32,311	4,691	10,185
1932	7,386	15,026	27,890	4,601	11,149
1933	5,157	13,933	25,153	(1)	(1)
1934	(1)	(1)	35,786	5,271	13,556
1935	10,004	14,811	29,900	(1)	(1)
1936	(1)	(1)	30,314	6,384	14,246
1937	11,416	14,617	31,716	5,454	24,184
1938	8,638	16,144	33,412	3,645	16,036
1939	7,805	11,653	36,847	3,333	24,380
1940	5,991	13,984	37,457	3,366	17,584
1941	(1)	(1)	35,439	(1)	(1)
1942	2,856	12,106	28,722	(1)	(1)
1943	2,808	12,677	(1)	(1)	(1)
1944	1,856	13,125	29,847	(1)	(1)
1945	2,479	13,553	32,570	2,822	13,970
1946	2,050	(1)	33,355	(1)	(1)
1947	2,125	15,744	33,730	(1)	(1)
1948	1,652	15,790	34,403	(1)	(1)
1949	4,003	17,412	31,777	(1)	13,121
1950	4,727	18,170	29,954	3,033	12,292
1951	1,970	17,410	29,598	3,783	11,519
1952	2,209	16,767	34,418	4,111	14,637
1953	1,038	14,462	36,946	4,019	12,836
1954	735	13,377	41,587	3,811	11,443
1955	619	9,848	39,227	2,260	13,881
1956	506	8,466	37,064	3,656	13,513
1957	405	7,981	34,234	3,069	14,307
1958	276	4,296	37,530	2,651	10,408
1959	387	1,392	33,322	3,516	13,721
1960	500	1,154	27,111	4,119	16,098
1961	453	1,921	27,500	3,984	18,240
1962	294	2,362	19,939	3,850	18,838
1963	452	951	18,274	4,837	24,139
1964	195	1,356	22,098	3,527	23,385

YEAR	EASTERN - CONTINUED		PACIFIC	WESTERN	GRAND TOTAL
	WASHINGTON AND CALIFORNIA	TOTAL	WASHINGTON, OREGON, AND CALIFORNIA	WASHINGTON, OREGON, AND CALIFORNIA	
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1921	(1)	(1)	(1)	(1)	(1)
1922	120	(1)	35	566	(1)
1923	114	(1)	10	696	(1)
1924	89	(1)	16	662	(1)
1925	67	(1)	28	673	(1)
1926	81	(1)	60	701	(1)
1927	169	(1)	(1)	618	(1)
1928	146	(1)	(1)	619	(1)
1929	53	89,371	66	627	90,064
1930	75	86,330	228	316	86,874
1931	172	72,971	1,034	205	74,210
1932	42	66,094	2,103	270	68,467
1933	60	(1)	2,843	226	(1)
1934	90	(1)	4,956	330	(1)
1935	65	(1)	5,527	338	(1)
1936	60	(1)	6,377	317	(1)
1937	68	87,455	7,891	281	95,627
1938	48	77,923	8,734	275	86,932
1939	24	84,042	8,716	247	93,005
1940	18	78,400	10,756	227	89,383
1941	18	(1)	12,313	260	(1)
1942	12	(1)	10,526	240	(1)
1943	12	(1)	7,791	175	(1)

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF OYSTER CATCH, BY SPECIES, 1921-64 - Continued

(THOUSANDS OF POUNDS)

YEAR	EASTERN - CONTINUED		PACIFIC	WESTERN	GRAND TOTAL
	WASHINGTON AND CALIFORNIA	TOTAL	WASHINGTON, OREGON, AND CALIFORNIA	WASHINGTON, OREGON, AND CALIFORNIA	
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1944.	14	(1)	8,700	159	(1)
1945.	9	65,403	10,074	151	75,628
1946.	12	(1)	13,371	169	(1)
1947.	19	(1)	11,320	146	(1)
1948.	48	(1)	9,564	154	(1)
1949.	7	(1)	8,164	203	(1)
1950.	16	68,192	8,080	143	76,415
1951.	25	64,305	8,597	88	72,990
1952.	23	72,165	9,957	120	82,242
1953.	18	69,319	10,283	117	79,719
1954.	18	70,971	10,855	96	81,922
1955.	20	65,855	11,602	58	77,515
1956.	20	63,225	11,881	27	75,133
1957.	17	60,013	11,614	31	71,658
1958.	4	55,165	11,197	34	66,396
1959.	1	52,339	12,328	43	64,710
1960.	(3)	48,982	10,983	45	60,010
1961.	15	52,113	10,154	38	62,305
1962.	14	45,297	10,714	26	56,037
1963.	14	48,667	9,746	31	58,444
1964.	5	50,566	9,934	34	60,534

1/ DATA NOT AVAILABLE.

2/ THE CATCH OF OYSTERS ON THE EAST COAST OF FLORIDA HAS BEEN INCLUDED WITH THE GULF DATA.

3/ LESS THAN 500 POUNDS.

SUMMARY OF OYSTER CATCH, VARIOUS YEARS, 1929-64

YEAR	NEW ENGLAND		MIDDLE ATLANTIC		CHESAPEAKE		SOUTH ATLANTIC	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1929. . . .	5,957,262	$1,204,383	29,213,705	$5,505,293	33,138,400	$4,524,285	6,404,204	$391,164
1930. . . .	9,431,968	1,747,100	21,516,320	4,076,864	36,723,800	4,351,917	5,895,739	322,527
1931. . . .	4,066,363	820,487	21,546,401	2,764,913	32,310,800	2,784,210	4,690,762	187,349
1932. . . .	7,386,432	1,202,327	15,026,476	1,763,506	27,889,600	2,015,435	4,600,974	137,337
1937. . . .	11,415,400	1,550,023	14,617,400	2,370,548	31,715,700	2,300,624	5,454,200	251,207
1938. . . .	8,637,300	1,554,150	16,144,100	2,696,183	33,412,300	2,369,669	3,644,700	189,069
1939. . . .	7,805,500	1,563,432	11,653,900	1,778,714	36,846,600	2,725,917	3,333,200	160,602
1940. . . .	5,990,200	1,051,224	13,983,200	2,181,905	37,457,100	3,217,247	3,366,600	162,378
1945.	2,478,100	1,062,912	13,553,300	5,351,626	32,569,900	11,621,078	2,821,800	644,383
1950. . . .	4,727,600	1,681,155	18,169,600	9,608,735	29,953,500	11,094,772	3,033,500	981,961
1951. . . .	1,969,500	1,015,623	17,410,400	9,708,611	29,598,200	11,968,871	3,782,900	1,201,951
1952. . . .	2,209,300	1,053,905	16,767,000	9,115,404	34,417,600	14,876,975	4,111,600	1,243,680
1953. . . .	1,037,700	615,390	14,461,600	7,344,569	36,944,900	14,726,665	4,021,100	1,024,839
1954. . . .	734,700	481,172	13,375,900	7,497,323	41,587,800	18,860,250	3,809,900	1,025,626
1955. . . .	618,500	490,094	9,848,600	5,281,607	39,227,500	17,802,245	2,261,100	676,983
1956. . . .	505,300	437,119	8,464,800	4,807,370	37,064,100	18,692,542	3,656,400	1,049,188
1957. . . .	402,700	376,787	7,981,600	5,026,454	34,233,900	17,191,786	3,068,100	883,634
1958. . . .	274,400	318,850	4,295,900	3,379,391	37,530,400	20,793,964	2,650,900	765,707
1959. . . .	386,100	453,628	1,390,900	1,256,314	33,321,100	20,608,422	3,517,300	1,040,034
1960. . . .	498,400	623,345	1,153,400	1,184,834	27,110,100	19,309,170	4,119,700	1,552,278
1961. . . .	452,500	524,281	1,921,100	2,020,686	27,500,100	21,734,499	3,984,500	1,779,670
1962. . . .	294,100	370,801	2,362,900	2,562,691	19,937,500	15,956,201	3,848,900	1,724,669
1963. . . .	453,000	533,034	950,300	1,156,511	18,274,300	13,728,271	4,837,300	2,019,830
1964. . . .	194,400	326,178	1,355,900	1,366,431	22,097,900.	15,805,701	3,526,900	1,507,982

YEAR	GULF		PACIFIC COAST		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1929. . . .	14,604,653	$1,280,976	745,560	$417,976	90,063,784	$13,324,077
1930. . . .	12,687,737	1,093,580	618,869	372,749	86,874,433	11,964,737
1931. . . .	10,184,698	607,031	1,411,458	361,348	74,210,482	7,525,338
1932. . . .	11,149,036	574,095	2,414,851	281,426	68,467,369	5,974,126
1937. . . .	24,184,200	1,443,504	8,239,900	787,548	95,626,800	8,703,454

(CONTINUED ON NEXT PAGE)

SUMMARY OF OYSTER CATCH, VARIOUS YEARS, 1929-64 - Continued

YEAR	GULF		PACIFIC COAST 1/		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1938. . . .	16,036,000	$880,788	9,057,400	$767,873	86,931,800	$8,457,732
1939. . . .	24,379,500	1,279,979	8,987,800	681,689	93,006,500	8,190,333
1940. . . .	17,584,100	1,100,372	11,000,800	753,826	89,382,000	8,466,952
1945. . . .	13,969,600	4,601,243	10,234,600	1,863,928	75,627,300	25,145,170
1950. . . .	12,291,500	4,009,217	8,239,200	2,220,671	76,414,900	29,596,511
1951. . . .	11,519,000	3,181,228	8,709,600	1,993,484	72,989,600	29,069,768
1952. . . .	14,636,600	4,016,749	10,100,200	2,032,243	82,242,300	32,338,956
1953. . . .	12,835,000	3,562,036	10,417,400	1,777,601	79,717,700	29,051,100
1954. . . .	11,443,500	3,055,828	10,969,500	1,874,525	81,921,300	32,794,724
1955. . . .	13,880,900	3,740,393	11,681,400	2,483,151	77,518,000	30,474,473
1956. . . .	13,514,100	3,077,162	11,927,500	2,822,538	75,132,200	30,885,919
1957. . . .	14,306,000	3,691,401	11,661,900	2,235,202	71,654,200	29,405,264
1958. . . .	10,407,400	2,996,594	11,236,000	2,186,851	66,395,000	30,441,357
1959. . . .	13,722,300	3,806,707	12,371,700	2,318,994	64,709,400	29,484,099
1960. . . .	16,097,900	4,293,769	11,027,900	2,276,707	60,007,400	29,240,103
1961. . . .	18,238,700	5,124,827	10,206,600	2,020,224	62,303,500	33,204,187
1962. . . .	18,840,100	5,898,583	10,753,600	2,626,468	56,037,100	29,139,413
1963. . . .	24,138,100	7,186,320	9,789,600	2,482,030	58,442,600	27,105,996
1964. . . .	23,384,800	6,272,737	9,971,900	2,644,606	60,531,800	27,923,635

1/ EXCLUDING ALASKA.

NEW ENGLAND OYSTER CATCH, VARIOUS YEARS, 1880-1964

YEAR	MAINE		MASSACHUSETTS		RHODE ISLAND	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1880. . . .	-	-	252,360	$41,800	1,158,720	$225,500
1887. . . .	-	-	302,712	64,116	1,377,613	261,026
1888. . . .	-	-	319,873	66,453	1,343,710	252,601
1889. . . .	-	-	259,236	65,538	1,444,558	271,939
1892. . . .	-	-	454,297	83,638	1,238,566	259,242
1898. . . .	-	-	709,587	156,235	3,247,384	505,378
1902. . . .	-	-	529,858	120,252	3,667,000	561,291
1905. . . .	-	-	789,186	207,475	5,362,900	874,232
1908. . . .	-	-	867,137	202,900	8,683,300	967,000
1910. . . .	-	-	1,669,172	313,019	15,131,790	1,306,391
1919. . . .	-	-	775,740	279,547	6,351,212	1,242,585
1924. . . .	-	-	532,010	267,811	2,620,596	458,364
1928. . . .	-	-	755,026	365,594	2,966,174	656,859
1929. . . .	-	-	379,850	178,311	2,360,118	518,763
1930. . . .	-	-	434,514	190,650	3,381,743	737,916
1931. . . .	-	-	268,767	119,588	2,415,265	539,662
1932. . . .	-	-	279,570	95,508	3,990,476	695,375
1933. . . .	-	-	180,609	60,037	3,117,763	432,992
1935. . . .	-	-	270,100	77,859	5,227,000	524,741
1937. . . .	-	-	207,700	76,003	4,330,200	570,888
1938. . . .	-	-	227,700	79,745	3,584,400	457,525
1939. . . .	-	-	269,800	123,152	2,313,500	399,072
1940. . . .	-	-	383,600	170,164	1,749,600	342,306
1942. . . .	-	-	350,000	176,416	1,170,300	292,925
1943. . . .	-	-	242,400	122,260	1,382,900	493,517
1944. . . .	-	-	190,300	97,456	804,700	476,104
1945. . . .	-	-	169,100	101,680	915,500	406,588
1946. . . .	-	-	205,800	184,347	983,900	468,267
1947. . . .	-	-	256,500	152,940	569,400	267,000
1948. . . .	-	-	229,300	148,787	908,500	502,477
1949. . . .	-	-	238,500	144,853	679,800	335,662
1950. . . .	-	-	228,000	130,893	922,100	429,240
1951. . . .	-	-	248,100	160,152	868,700	490,949
1952. . . .	-	-	296,800	150,214	633,600	373,264
1953. . . .	-	-	232,600	123,188	252,000	172,270
1954. . . .	5,700	$4,075	174,100	108,656	112,000	91,576
1955. . . .	3,000	2,175	167,500	125,955	39,600	32,035
1956. . . .	-	-	228,000	201,743	31,000	24,533
1957. . . .	5,600	3,850	151,500	153,337	2,700	3,510
1958. . . .	3,300	2,256	112,500	137,250	2,800	2,400
1959. . . .	3,600	2,205	117,900	162,844	5,800	4,427
1960. . . .	2,700	998	110,300	151,552	24,500	22,400
1961. . . .	2,900	2,290	83,500	99,041	7,500	6,067
1962. . . .	900	799	78,400	81,177	8,800	8,259
1963. . . .	1,800	1,798	44,700	57,079	11,300	11,528
1964. . . .	1,500	1,201	56,200	76,259	12,900	13,117

(CONTINUED ON NEXT PAGE)

NEW ENGLAND OYSTER CATCH, VARIOUS YEARS, 1880-1964 - Continued

YEAR	CONNECTICUT		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE
1880. . . .	2,449,356	$386,625	3,860,436	$653,925
1887. . . .	11,449,038	998,823	13,129,363	1,323,965
1888. . . .	10,991,832	1,012,259	12,655,415	1,331,313
1889. . . .	10,817,068	1,055,807	12,520,862	1,393,284
1892. . . .	14,124,466	1,426,249	15,817,329	1,769,129
1898. . . .	15,218,614	1,249,071	19,175,585	1,910,684
1902. . . .	6,173,913	872,634	10,370,771	1,554,177
1905. . . .	8,267,888	1,206,217	14,419,974	2,287,924
1908. . . .	10,150,504	1,167,400	19,700,941	2,337,300
1910. . . .	9,828,109	826,060	26,629,071	2,445,470
1919. . . .	5,161,854	493,666	12,288,806	2,015,798
1924. . . .	4,325,179	686,899	7,477,785	1,413,074
1928. . . .	894,435	203,254	4,615,635	1,225,707
1929. . . .	3,217,294	507,309	5,957,262	1,204,383
1930. . . .	5,615,711	818,534	9,431,968	1,747,100
1931. . . .	1,382,331	161,237	4,066,363	820,487
1932. . . .	3,116,386	411,444	7,386,432	1,202,327
1933. . . .	1,858,908	254,344	5,157,280	747,373
1935. . . .	4,507,100	607,642	10,004,200	1,210,242
1937. . . .	6,877,500	903,132	11,415,400	1,550,023
1938. . . .	4,825,200	1,016,880	8,637,300	1,554,150
1939. . . .	5,222,200	1,041,208	7,805,500	1,563,432
1940. . . .	3,857,000	538,754	5,990,200	1,051,224
1942. . . .	1,336,400	279,039	2,856,700	748,380
1943. . . .	1,182,800	323,166	2,808,100	938,943
1944. . . .	861,200	242,809	1,856,200	816,369
1945. . . .	1,393,500	554,644	2,478,100	1,062,912
1946. . . .	860,300	286,862	2,050,000	939,476
1947. . . .	1,299,200	458,339	2,125,100	878,279
1948. . . .	513,700	230,166	1,651,500	881,430
1949. . . .	3,085,600	992,121	4,003,900	1,472,636
1950. . . .	3,577,500	1,121,022	4,727,600	1,681,155
1951. . . .	852,700	364,522	1,969,500	1,015,623
1952. . . .	1,278,900	530,427	2,209,300	1,053,905
1953. . . .	553,100	319,932	1,037,700	615,390
1954. . . .	442,900	276,865	734,700	481,172
1955. . . .	408,400	329,929	618,500	490,094
1956. . . .	246,300	210,843	505,300	437,119
1957. . . .	242,900	216,090	402,700	376,787
1958. . . .	155,800	176,944	274,400	318,850
1959. . . .	258,800	284,152	386,100	453,628
1960. . . .	360,900	448,395	498,400	623,345
1961. . . .	358,600	416,883	452,500	524,281
1962. . . .	206,000	280,566	294,100	370,801
1963. . . .	395,200	462,629	453,000	533,034
1964. . . .	123,800	235,601	194,400	326,178

MIDDLE ATLANTIC OYSTER CATCH, VARIOUS YEARS, 1880-1964

YEAR	NEW YORK		NEW JERSEY		PENNSYLVANIA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1880. . . .	7,303,100	$1,577,050	17,735,500	$2,080,625	1,249,582	$187,500
1887. . . .	13,903,050	1,974,625	23,523,469	2,270,011	1,572,590	183,168
1888. . . .	13,307,840	1,893,085	22,670,108	2,245,659	1,598,995	165,339
1889. . . .	14,628,208	2,132,772	9,566,789	1,060,182	1,343,152	137,520
1890. . . .	16,456,104	2,457,589	10,207,072	1,218,792	1,254,644	131,450
1891. . . .	18,277,434	2,748,509	9,860,453	1,227,909	1,188,773	124,420
1892. . . .	(1)	(1)	10,323,345	1,270,568	930,631	101,850
1897. . . .	15,517,110	2,167,463	11,350,540	1,387,506	1,869,516	143,974
1898. . . .	12,823,237	1,863,607	12,051,348	1,309,411	(1)	(1)
1901. . . .	12,380,921	1,703,985	18,789,168	1,696,767	283,562	35,517
1904. . . .	20,079,549	3,413,893	11,756,454	1,298,508	632,700	90,000
1908. . . .	12,950,000	2,173,000	8,252,620	884,000	906,870	134,000
1911. . . .	24,835,433	3,199,668	8,690,574	809,554	(1)	(1)
1921. . . .	9,423,470	1,775,453	14,171,922	2,070,496	-	-
1926. . . .	7,125,265	2,111,722	14,374,600	2,046,554	-	-
1929. . . .	9,192,337	2,165,742	19,916,410	3,327,144	-	-
1930. . . .	9,263,225	2,172,965	11,824,995	1,848,988	-	-
1931. . . .	6,673,930	1,025,488	14,401,917	1,686,368	-	-
1932. . . .	6,036,253	894,421	8,563,629	821,683	-	-

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MIDDLE ATLANTIC OYSTER CATCH, VARIOUS YEARS, 1880-1964 - Continued

YEAR	NEW YORK		NEW JERSEY		PENNSYLVANIA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1933. . . .	6,091,784	$832,690	7,611,675	$587,101	-	-
1935. . . .	5,767,100	969,287	8,462,200	703,729	-	-
1937. . . .	9,784,500	1,709,786	4,562,700	631,592	-	-
1938. . . .	10,206,600	1,957,229	5,797,800	724,953	-	-
1939. . . .	6,272,700	1,211,803	5,096,100	541,848	-	-
1940. . . .	7,067,200	1,403,068	5,941,800	711,610	-	-
1942. . . .	6,400,300	2,144,260	5,521,500	1,267,505	-	-
1943. . . .	6,604,600	2,650,205	6,024,300	1,389,480	-	-
1944. . . .	7,137,000	3,432,350	5,640,300	2,920,806	-	-
1945. . . .	5,073,500	2,067,276	7,747,800	3,065,625	-	-
1946. . . .	5,789,400	3,820,620	(1)	(1)	-	-
1947. . . .	5,785,000	3,856,597	5,853,000	2,194,461	-	-
1948. . . .	6,952,000	4,721,545	5,988,300	2,395,320	-	-
1949. . . .	8,135,700	5,423,560	7,085,700	2,783,624	-	-
1950. . . .	8,786,800	5,799,688	7,241,800	2,897,247	-	-
1951. . . .	9,383,100	6,255,270	5,761,300	2,405,681	-	-
1952. . . .	6,520,900	4,567,110	7,993,800	3,397,369	-	-
1953. . . .	2,835,800	1,661,843	8,484,500	4,118,084	-	-
1954. . . .	1,707,000	1,138,029	7,328,900	3,633,774	-	-
1955. . . .	1,353,700	1,075,632	5,204,500	2,602,275	-	-
1956. . . .	1,069,400	1,000,900	5,501,800	3,023,620	-	-
1957. . . .	1,067,400	1,018,206	2,720,000	1,781,528	-	-
1958. . . .	1,056,800	986,293	829,000	675,836	-	-
1959. . . .	889,900	908,296	206,000	189,233	-	-
1960. . . .	810,400	905,203	166,800	159,948	-	-
1961. . . .	788,100	1,068,451	1,100,100	933,444	-	-
1962. . . .	728,900	1,079,969	1,553,400	1,422,234	-	-
1963. . . .	394,500	572,688	515,400	558,737	-	-
1964. . . .	213,500	315,037	1,097,700	1,024,410	-	-

YEAR	DELAWARE		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE
1880. . . .	2,109,000	$325,000	28,397,182	$4,170,175
1887. . . .	276,279	17,526	39,275,388	4,445,330
1888. . . .	294,240	17,920	37,871,183	4,322,003
1889. . . .	1,038,682	64,671	26,576,831	3,395,145
1890. . . .	1,184,555	73,605	29,102,375	3,881,436
1891. . . .	1,101,742	70,134	30,428,402	4,170,972
1892. . . .	1,232,584	73,863	(1)	(1)
1897. . . .	389,350	28,862	29,126,516	3,727,805
1898. . . .	-	-	(1)	(1)
1901. . . .	681,207	40,290	32,134,858	3,476,559
1904. . . .	811,262	47,513	33,279,965	4,849,914
1908. . . .	1,082,620	112,000	23,192,110	3,303,000
1911. . . .	1,790,604	178,860	35,316,611	4,188,082
1921. . . .	2,824,836	368,115	26,420,228	4,214,064
1926. . . .	3,426,386	476,030	24,926,251	4,634,306
1929. . . .	104,958	12,407	29,213,705	5,505,293
1930. . . .	428,100	54,911	21,516,320	4,076,864
1931. . . .	470,554	53,057	21,546,401	2,764,913
1932. . . .	426,594	47,402	15,026,476	1,763,506
1933. . . .	229,360	28,190	13,932,819	1,447,981
1935. . . .	581,400	54,989	14,810,700	1,728,005
1937. . . .	270,200	29,170	14,617,400	2,370,548
1938. . . .	139,700	14,001	16,144,100	2,696,183
1939. . . .	285,100	25,063	11,653,900	1,778,714
1940. . . .	974,200	67,227	13,983,200	2,181,905
1942. . . .	183,800	23,941	12,105,600	3,435,706
1943. . . .	47,600	8,325	12,676,500	4,048,010
1944. . . .	347,500	139,775	13,124,800	6,492,931
1945. . . .	732,000	218,725	13,553,300	5,351,626
1946. . . .	(1)	(1)	(1)	(1)
1947. . . .	4,105,900	1,418,132	15,743,900	7,469,190
1948. . . .	2,850,000	1,077,400	15,790,300	8,194,265
1949. . . .	2,190,000	865,250	17,411,400	9,072,434
1950. . . .	2,141,000	911,800	18,169,600	9,608,735
1951. . . .	2,266,000	1,047,660	17,410,400	9,708,611
1952. . . .	2,252,300	1,150,925	16,767,000	9,115,404
1953. . . .	3,141,300	1,564,642	14,461,600	7,344,569
1954. . . .	4,340,000	2,725,520	13,375,900	7,497,323
1955. . . .	3,290,400	1,603,700	9,848,600	5,281,607
1956. . . .	1,893,600	782,850	8,464,800	4,807,370
1957. . . .	4,194,200	2,226,720	7,981,600	5,026,454
1958. . . .	2,410,100	1,717,262	4,295,900	3,379,391
1959. . . .	295,000	158,785	1,390,900	1,256,314
1960. . . .	176,200	119,683	1,153,400	1,184,834
1961. . . .	32,900	18,791	1,921,100	2,020,686
1962. . . .	80,600	60,488	2,362,900	2,562,691
1963. . . .	40,400	25,086	950,300	1,156,511
1964. . . .	44,700	26,984	1,355,900	1,366,431

1/ DATA NOT AVAILABLE.

CHESAPEAKE OYSTER CATCH, VARIOUS YEARS, 1880-1964

YEAR	MARYLAND		VIRGINIA		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1880. . . .	71,868,000	$4,730,476	45,536,600	$2,218,376	117,404,600	$6,948,852
1887 1/ . .	55,244,900	2,683,435	19,454,800	1,002,901	74,699,700	3,686,336
1888. . . .	57,844,600	2,877,790	24,405,100	1,336,012	82,249,700	4,213,802
1890. . . .	70,851,600	4,854,746	40,453,000	2,482,348	111,304,600	7,337,094
1891. . . .	67,427,500	5,295,866	40,969,900	2,524,348	108,397,400	7,820,214
1897. . . .	49,188,500	2,885,202	46,778,800	2,041,683	95,967,300	4,926,885
1901. . . .	38,548,100	3,031,518	40,410,700	2,621,915	78,958,800	5,653,433
1904. . . .	29,333,100	2,417,674	38,098,300	3,459,676	67,431,400	5,877,350
1908. . . .	39,527,400	2,228,000	24,455,500	2,348,000	63,982,900	4,576,000
1912. . . .	37,272,900	2,127,759	29,344,100	2,286,340	66,617,000	4,414,099
1920. . . .	30,831,900	2,291,120	21,484,100	2,348,961	52,316,000	4,640,081
1925. . . .	28,821,500	3,256,272	19,561,100	2,765,334	48,382,600	6,021,606
1929. . . .	17,185,400	2,453,887	15,953,000	2,070,398	33,138,400	4,524,285
1930. . . .	17,105,900	2,069,972	19,617,900	2,281,945	36,723,800	4,351,917
1931. . . .	16,374,400	1,473,914	15,936,400	1,310,296	32,310,800	2,784,210
1932. . . .	12,985,400	941,843	14,904,200	1,073,592	27,889,600	2,015,435
1933. . . .	11,684,800	788,197	13,467,800	937,055	25,152,600	1,725,252
1934. . . .	13,917,300	902,883	21,868,800	1,399,818	35,786,100	2,302,701
1935. . . .	15,583,800	1,021,615	14,317,200	997,822	29,901,000	2,019,437
1936. . . .	16,060,000	1,256,101	14,253,800	1,207,180	30,313,800	2,463,281
1937. . . .	20,729,700	1,519,474	10,986,000	781,150	31,715,700	2,300,624
1938. . . .	19,363,000	1,198,159	14,049,300	1,171,510	33,412,300	2,369,669
1939. . . .	20,342,300	1,389,945	16,504,300	1,335,972	36,846,600	2,725,917
1940. . . .	19,743,200	1,644,497	17,713,900	1,572,750	37,457,100	3,217,247
1941. . . .	18,816,400	2,352,999	16,622,200	2,141,620	35,438,600	4,494,619
1942. . . .	13,767,700	2,520,080	14,954,300	2,700,862	28,722,000	5,220,942
1944. . . .	14,126,600	4,531,345	15,720,400	4,528,735	29,847,000	9,060,080
1945. . . .	15,033,500	5,261,725	17,536,400	6,359,353	32,569,900	11,621,078
1946. . . .	13,590,300	4,377,090	19,764,800	5,905,230	33,355,100	10,282,320
1947. . . .	13,076,500	4,358,510	20,653,800	7,465,140	33,730,300	11,823,650
1948. . . .	13,285,100	4,760,392	21,117,500	7,024,940	34,402,600	11,785,332
1949. . . .	13,717,700	5,386,805	18,059,000	5,988,255	31,776,700	11,375,060
1950. . . .	14,406,000	5,520,892	15,547,500	5,573,880	29,953,500	11,094,772
1951. . . .	14,521,900	6,692,360	15,076,300	5,276,511	29,598,200	11,968,871
1952. . . .	16,287,600	7,165,000	18,130,000	7,711,975	34,417,600	14,876,975
1953. . . .	17,433,900	7,074,450	19,511,000	7,652,215	36,944,900	14,726,665
1954. . . .	20,363,200	9,019,500	21,224,600	9,840,750	41,587,800	18,860,250
1955. . . .	17,271,900	7,786,400	21,955,600	10,015,845	39,227,500	17,802,245
1956. . . .	15,843,900	8,791,685	21,220,200	9,900,857	37,064,100	18,692,542
1957. . . .	14,144,400	7,344,917	20,089,500	9,846,869	34,233,900	17,191,786
1958. . . .	12,026,700	6,667,542	25,503,700	14,126,422	37,530,400	20,793,964
1959. . . .	11,966,200	7,234,124	21,354,900	13,374,298	33,321,100	20,608,422
1960. . . .	11,769,700	8,426,224	15,340,400	10,882,946	27,110,100	19,309,170
1961. . . .	10,336,600	7,802,392	17,163,500	13,932,107	27,500,100	21,734,499
1962. . . .	8,137,500	6,182,332	11,800,000	9,773,869	19,937,500	15,956,201
1963. . . .	7,756,400	5,618,082	10,517,900	8,110,189	18,274,300	13,728,271
1964. . . .	7,947,700	5,460,637	14,150,200	10,345,064	22,097,900	15,805,701

1/ EXCLUSIVE OF THE JAMES AND POTOMAC RIVERS.

SOUTH ATLANTIC OYSTER CATCH, VARIOUS YEARS, 1880-1964

YEAR	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1880. . . .	938,400	$60,000	238,000	$20,000	393,400	$35,000
1887. . . .	1,175,650	48,353	179,571	18,581	618,678	26,950
1888. . . .	1,129,960	46,129	191,552	19,146	677,772	29,370
1889. . . .	5,528,942	194,272	207,631	19,890	917,184	26,356
1890. . . .	4,456,075	175,567	300,594	23,204	1,260,875	40,520
1897. . . .	4,740,675	241,099	1,022,924	45,360	2,734,883	86,709
1902. . . .	5,645,928	268,363	3,282,972	118,460	6,878,880	220,467
1908. . . .	4,159,320	227,300	7,439,880	137,000	8,070,320	334,000
1910. . . .	1,834,058	63,405	3,356,390	93,927	2,839,084	170,812
1918. . . .	1,197,630	70,280	1,893,004	96,542	891,028	73,913
1923. . . .	3,089,146	229,576	3,421,992	113,955	1,381,182	86,771
1927. . . .	2,397,750	200,742	3,699,391	156,002	608,033	43,602
1928. . . .	2,286,610	167,490	3,942,446	162,867	841,736	54,670
1929. . . .	2,828,420	245,533	3,133,518	125,661	442,266	19,970
1930. . . .	2,205,674	155,148	3,248,509	133,152	159,385	10,608
1931. . . .	1,500,571	92,061	2,539,802	60,676	307,766	9,251
1932. . . .	1,201,356	51,339	2,417,841	51,856	588,408	15,670
1934. . . .	1,160,700	53,092	2,861,900	101,774	568,700	31,361
1936. . . .	2,480,500	160,631	3,117,900	162,612	330,100	21,066

(CONTINUED ON NEXT PAGE)

SOUTH ATLANTIC OYSTER CATCH, VARIOUS YEARS, 1880-1964 - Continued

YEAR	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1937. . . .	1,940,900	$112,051	2,811,600	$104,718	239,000	$12,576
1938. . . .	1,426,900	98,468	1,761,000	66,703	154,000	8,038
1939. . . .	1,055,600	72,964	1,719,400	64,548	234,400	12,353
1940. . . .	690,400	52,560	2,202,700	81,817	264,800	15,178
1945. . . .	1,707,100	400,210	722,100	117,147	255,100	50,026
1950. . . .	1,322,100	555,686	1,373,700	336,125	307,900	76,740
1951. . . .	1,531,900	632,122	1,930,200	482,500	292,700	72,155
1952. . . .	1,620,900	600,238	2,248,700	583,982	221,200	55,300
1953. . . .	1,525,300	536,015	2,247,700	425,364	222,800	58,400
1954. . . .	1,008,400	395,870	2,561,600	559,829	217,200	65,160
1955. . . .	731,000	286,395	1,337,400	334,330	173,300	51,990
1956. . . .	1,318,000	563,777	2,185,900	441,943	120,200	35,716
1957. . . .	1,086,500	479,757	1,844,500	369,681	112,300	27,401
1958. . . .	1,041,500	434,311	1,437,100	288,197	142,600	35,002
1959. . . .	1,311,000	587,607	1,918,300	379,249	248,000	60,937
1960. . . .	1,216,200	560,442	2,627,500	919,625	231,400	58,831
1961. . . .	1,209,100	615,467	2,544,300	1,095,210	158,500	47,650
1962. . . .	961,400	485,589	2,673,600	1,167,565	146,900	51,415
1963. . . .	694,000	356,705	3,827,100	1,556,490	235,500	82,425
1964. . . .	727,700	414,775	2,511,100	996,969	195,800	68,536

YEAR	FLORIDA, EAST COAST		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE
1880. . . .	(1)	(1)	1,569,800	$115,000
1887. . . .	(2)	(2)	(2)	(2)
1888. . . .	(1)	(1)	(2)	(2)
1889. . . .	(1)	(1)	(2)	(2)
1890. . . .	(1)	(1)	(2)	(2)
1897. . . .	(1)	(1)	(2)	(2)
1902. . . .	(1)	(1)	(2)	(2)
1908. . . .	(1)	(1)	(2)	(2)
1910. . . .	(1)	(1)	(2)	(2)
1918. . . .	(1)	(1)	(2)	(2)
1923. . . .	(1)	(1)	(2)	(2)
1927. . . .	(1)	(1)	(2)	(2)
1928. . . .	(1)	(1)	(2)	(2)
1929. . . .	(1)	(1)	(2)	(2)
1930. . . .	282,171	$23,619	5,895,739	322,527
1931. . . .	342,623	25,361	4,690,762	187,349
1932. . . .	393,369	18,472	4,600,974	137,337
1934. . . .	679,200	29,016	5,270,500	215,243
1936. . . .	456,000	19,677	6,384,500	363,986
1937. . . .	462,700	21,862	5,454,200	251,207
1938. . . .	302,800	15,860	3,644,700	189,069
1939. . . .	323,800	10,737	3,333,200	160,602
1940. . . .	208,700	12,823	3,366,600	162,378
1945. . . .	137,500	77,000	2,821,800	644,383
1950. . . .	29,800	13,410	3,033,500	981,961
1951. . . .	28,100	15,174	3,782,900	1,201,951
1952. . . .	20,800	4,160	4,111,600	1,243,680
1953. . . .	25,300	5,060	4,021,100	1,024,839
1954. . . .	22,700	4,767	3,809,900	1,025,626
1955. . . .	19,400	4,268	2,261,100	676,983
1956. . . .	32,300	7,752	3,656,400	1,049,188
1957. . . .	24,800	6,795	3,068,100	883,634
1958. . . .	29,700	8,197	2,650,900	765,707
1959. . . .	40,000	12,241	3,517,300	1,040,034
1960. . . .	44,600	13,380	4,119,700	1,552,278
1961. . . .	72,600	21,343	3,984,500	1,779,670
1962. . . .	67,000	20,100	3,848,900	1,724,669
1963. . . .	80,700	24,210	4,837,300	2,019,830
1964. . . .	92,300	27,702	3,526,900	1,507,982

1/ THE CATCH OF OYSTERS ON THE EAST COAST OF FLORIDA HAS BEEN INCLUDED WITH THAT OF THE WEST COAST OF FLORIDA.

2/ DATA NOT AVAILABLE.

FLORIDA OYSTER CATCH, VARIOUS YEARS, 1880-1964

YEAR	EAST COAST		WEST COAST		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1880. . . .	(1)	(1)	1/270,384	1/$15,950	270,384	$15,950
1888. . . .	(1)	(1)	1/822,830	1/57,398	822,830	57,398
1889. . . .	(1)	(1)	1/1,228,860	1/86,312	1,228,860	86,312
1890. . . .	(1)	(1)	1/1,611,402	1/108,542	1,611,402	108,542
1895. . . .	(1)	(1)	1/928,634	1/61,723	928,634	61,723
1897. . . .	(1)	(1)	1/796,511	1/62,024	796,511	62,024
1902. . . .	(1)	(1)	1/3,056,976	1/161,296	3,056,976	161,296
1908. . . .	(1)	(1)	1/3,670,480	1/296,000	3,670,480	296,000
1911. . . .	(1)	(1)	1,140,092	1/143,937	1,140,092	143,937
1918. . . .	(1)	(1)	1/1,511,109	1/141,948	1,511,109	141,948
1923. . . .	(1)	(1)	1,052,840	1/86,399	1,052,840	86,399
1927. . . .	(1)	(1)	1/1,237,640	1/207,512	1,237,640	207,512
1928. . . .	(1)	(1)	1/1,738,538	1/254,753	1,738,538	254,753
1929. . . .	(1)	(1)	1/1,504,566	1/223,661	1,504,566	223,661
1930. . . .	282,171	$23,619	1,501,082	118,579	1,783,253	142,198
1931. . . .	342,623	25,361	1,406,153	96,693	1,748,776	122,054
1932. . . .	393,369	18,472	1,108,837	58,895	1,502,206	77,367
1934. . . .	679,200	29,016	1,356,800	72,615	2,036,000	101,631
1936. . . .	456,000	19,677	917,100	62,091	1,373,100	81,768
1937. . . .	462,700	21,862	817,200	54,873	1,279,900	76,735
1938. . . .	302,800	15,860	857,700	63,528	1,160,500	79,388
1939. . . .	323,800	10,737	741,700	62,051	1,065,500	72,788
1940. . . .	208,700	12,823	668,600	49,075	877,300	61,898
1945. . . .	137,500	77,000	1,495,800	703,026	1,633,300	780,026
1950. . . .	29,800	13,410	872,700	392,450	902,500	405,860
1951. . . .	28,100	15,174	680,600	367,522	708,700	382,696
1952. . . .	20,800	4,160	541,900	108,380	562,700	112,540
1953. . . .	25,300	5,060	563,800	62,248	589,100	67,308
1954. . . .	22,700	4,767	667,500	140,175	690,200	144,942
1955. . . .	19,400	4,268	630,300	138,666	649;700	142,934
1956. . . .	32,300	7,752	856,300	205,512	888,600	213,264
1957. . . .	24,800	6,795	710,200	198,856	735,000	205,651
1958. . . .	29,700	8,197	794,800	218,494	824,500	226,691
1959. . . .	40,000	12,241	1,415,000	404,689	1,455,000	416,930
1960. . . .	44,600	13,380	1,930,800	482,700	1,975,400	496,080
1961. . . .	72,600	21,343	3,254,100	1,031,549	3,326,700	1,052,892
1962. . . .	67,000	20,100	4,952,500	1,406,515	5,019,500	1,426,615
1963. . . .	80,700	24,210	4,282,100	1,224,680	4,362,800	1,248,890
1964. . . .	92,300	27,702	2,792,700	781,142	2,885,000	808,844

1/ DATA FOR THE EAST COAST INCLUDED WITH THE WEST COAST.

GULF OYSTER CATCH, VARIOUS YEARS, 1880-1964

YEAR	FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1880. . . .	1/270,384	1/$15,950	327,085	$44,950	62,250	$10,000
1887. . . .	(2)	(2)	(2)	(2)	1,446,939	118,974
1888. . . .	1/822,830	1/57,398	238,271	32,174	1,910,340	157,463
1889. . . .	1/1,228,860	1/86,312	1,372,270	96,758	2,105,302	167,713
1890. . . .	1/1,611,402	1/108,542	1,505,749	107,812	2,008,130	166,672
1895. . . .	1/928,634	1/61,723	(2)	(2)	(2)	(2)
1897. . . .	1/796,511	1/62,024	798,316	60,207	1,567,985	110,964
1902. . . .	1/3,056,976	1/161,296	1,087,550	119,773	5,988,778	426,222
1908. . . .	1/3,670,480	1/296,000	1,677,680	169,000	2,657,079	295,800
1911. . . .	1/1,140,092	1/143,937	1,162,592	68,842	1,620,978	139,773
1918. . . .	1/1,511,109	1/141,948	376,360	38,175	3,168,248	307,326
1923. . . .	1/1,052,840	1/86,399	729,559	86,719	4,224,090	472,652
1927. . . .	1/1,237,640	1/207,512	520,804	47,174	6,692,794	667,127
1928. . . .	1/1,738,538	1/254,753	1,886,104	151,107	5,048,679	490,223
1929. . . .	1/1,504,566	1/223,661	178,823	18,952	6,642,777	453,786
1930. . . .	1,501,082	118,579	286,794	23,854	4,896,246	320,607
1931. . . .	1,406,153	96,693	768,721	28,258	3,437,894	143,843
1932. . . .	1,108,837	58,895	859,217	32,318	5,222,320	201,945
1934. . . .	1,356,800	72,615	391,800	23,834	4,903,900	309,790
1936. . . .	917,100	62,091	991,800	60,887	5,770,900	361,861
1937. . . .	817,200	54,873	1,235,200	66,145	12,894,100	579,339
1938. . . .	857,700	63,528	1,358,700	71,781	2,241,400	103,084
1939. . . .	741,700	62,051	1,357,700	83,510	7,706,400	338,773
1940. . . .	668,600	49,075	936,000	101,151	2,270,100	147,157
1945. . . .	1,495,800	703,026	1,605,700	717,007	265,200	119,842
1948. . . .	(2)	(2)	1,531,200	588,068	1,308,600	425.480

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GULF OYSTER CATCH, VARIOUS YEARS. 1880-1964 - Continued

YEAR	FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1949. . . .	1,086,400	$445,893	1,585,800	$662,277	461,900	$138,625
1950. . . .	872,700	392,450	2,070,300	534,116	507,800	195,370
1951. . . .	680,600	367,522	2,191,400	761,205	27,600	10,515
1952. . . .	541,900	108,380	1,842,000	572,844	23,100	8,638
1953. . . .	563,800	62,248	1,449,700	484,413	317,700	77,107
1954. . . .	667,500	140,175	739,300	172,510	976,500	199,455
1955. . . .	630,300	138,666	1,580,600	338,301	1,731,200	349,851
1956. . . .	856,300	205,512	769,900	174,487	846,300	173,654
1957. . . .	710,200	198,856	1,291,200	288,683	862,300	185,402
1958. . . .	794,800	218,494	457,600	111,607	578,800	122,322
1959. . . .	1,415,000	404,689	894,800	278,521	333,800	82,488
1960. . . .	1,930,800	482,700	1,169,300	317,045	2,390,700	535,495
1961. . . .	3,254,100	1,031,549	508,500	162,412	3,241,100	752,456
1962. . . .	4,952,500	1,406,515	442,700	164,527	2,073,700	537,870
1963. . . .	4,282,100	1,224,680	995,400	352,577	4,679,500	975,115
1964. . . .	2,792,700	781,142	1,005,300 [1]	324,125	4,828,600	1,098,736

YEAR	LOUISIANA		TEXAS		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1880. . . .	1,188,850	$200,000	324,541	$47,300	2,173,110	$318,200
1887. . . .	2,733,254	215,163	1,240,003	88,275	(2)	(2)
1888. . . .	2,901,568	230,820	1,651,771	109,633	7,524,780	587,488
1889. . . .	3,367,146	269,057	1,745,304	111,400	9,818,882	731,240
1890. . . .	3,391,588	299,896	2,133,472	127,990	10,650,341	810,912
1895. . . .	(2)	(2)	(2)	(2)	(2)	(2)
1897. . . .	3,865,536	432,668	1,722,604	94,663	8,750,952	760,526
1902. . . .	4,829,604	493,227	1,660,667	100,359	16,623,575	1,300,877
1908. . . .	11,952,980	675,000	2,368,696	167,200	22,326,915	1,603,000
1911. . . .	12,419,134	799,316	1,765,632	123,565	18,108,428	1,275,433
1918. . . .	4,522,478	494,299	2,312,474	143,610	11,890,669	1,125,358
1923. . . .	4,119,099	770,434	1,742,294	176,076	11,867,882	1,592,280
1927. . . .	6,640,202	1,097,833	1,910,333	189,665	17,001,773	2,209,311
1928. . . .	6,245,730	946,767	1,249,848	129,958	16,168,899	1,972,808
1929. . . .	4,549,402	438,410	1,729,085	146,167	14,604,653	1,280,976
1930. . . .	4,846,300	550,046	1,157,315	80,494	12,687,737	1,093,580
1931. . . .	3,589,898	278,866	982,032	59,371	10,184,698	607,031
1932. . . .	2,978,061	228,327	980,601	52,610	11,149,036	574,095
1934. . . .	5,591,700	414,315	1,311,800	105,204	13,556,000	925,758
1936. . . .	5,742,800	514,729	823,100	78,110	14,245,700	1,077,678
1937. . . .	8,048,100	652,516	1,189,600	90,631	24,184,200	1,443,504
1938. . . .	10,222,300	539,734	1,355,900	102,661	16,036,000	880,788
1939. . . .	13,586,400	719,901	987,300	75,744	24,379,500	1,279,979
1940. . . .	12,412,200	694,785	1,297,200	108,204	17,584,100	1,100,372
1945. . . .	9,884,100	2,829,007	718,800	232,361	13,969,600	4,601,243
1948. . . .	9,016,300	3,157,393	579,300	265,174	(2)	(2)
1949. . . .	9,687,500	3,459,341	299,300	132,702	13,120,900	4,838,838
1950. . . .	8,715,400	2,842,603	125,300	44,678	12,291,500	4,009,217
1951. . . .	8,163,700	1,902,647	455,700	139,339	11,519,000	3,181,228
1952. . . .	11,401,600	3,075,141	828,000	251,746	14,636,600	4,016,749
1953. . . .	9,435,300	2,672,664	1,068,500	265,604	12,835,000	3,562,036
1954. . . .	8,361,100	2,350,270	699,100	193,418	11,443,500	3,055,828
1955. . . .	9,395,900	2,753,177	542,900	160,398	13,880,900	3,740,393
1956. . . .	10,056,100	2,238,034	985,500	285,475	13,514,100	3,077,162
1957. . . .	10,489,300	2,756,098	953,000	262,362	14,306,000	3,691,401
1958. . . .	8,264,800	2,425,917	311,400	118,254	10,407,400	2,996,594
1959. . . .	9,667,500	2,645,124	1,411,200	395,885	13,722,300	3,806,707
1960. . . .	8,310,800	2,303,997	2,296,300	654,532	16,097,900	4,293,769
1961. . . .	10,139,200	2,849,090	1,095,800	329,320	18,238,700	5,124,827
1962. . . .	10,160,300	3,316,554	1,210,900	473,117	18,840,100	5,898,583
1963. . . .	11,563,200	3,720,113	2,617,900	913,835	24,138,100	7,186,320
1964. . . .	11,401,100	2,976,152	3,357,100	,092,582	23,384,800	6,272,737

1/ INCLUDES THE CATCH FOR THE EAST COAST OF FLORIDA.

2/ DATA NOT AVAILABLE.

PACIFIC COAST STATES OYSTER CATCH, VARIOUS YEARS, 1892 - 1964

YEAR	EASTERN					
	WASHINGTON		CALIFORNIA		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1892.	-	-	1,022,000	(1)	1,022,000	(1)
1895.	-	-	2/1,145,000	(1)	2/1,145,000	(1)
1899.	-	-	2,520,000	$792,000	2,520,000	$792,000
1904.	-	-	1,019,767	536,253	1,019,767	536,253
1908.	(3)	(3)	(3)	(3)	(3)	(3)
1915.	265,013	$140,028	375,774	165,573	640,787	305,601
1922.	45,710	24,416	74,000	(1)	119,710	(1)
1923.	44,954	38,235	68,810	24,084	113,764	62,319
1924.	36,022	23,362	52,678	22,576	88,700	45,938
1925.	10,332	9,608	56,900	24,386	67,232	33,994
1926.	20,280	21,181	61,042	26,161	81,322	47,342
1927.	113,360	53,060	55,492	23,782	168,852	76,842
1928.	73,640	31,914	72,630	30,699	146,270	62,613
1929.	8,780	5,698	43,725	21,862	52,505	27,560
1930.	1,970	1,851	72,796	29,118	74,766	30,969
1931.	2,650	1,961	168,916	52,785	171,566	54,746
1932.	2,400	1,370	39,227	12,258	41,627	13,628
1933.	1,466	844	58,419	21,907	59,885	22,751
1934.	500	175	89,100	38,981	89,600	39,156
1935.	700	297	64,000	30,848	64,700	31,145
1936.	1,300	337	58,900	18,320	60,200	18,657
1937.	800	300	67,300	23,047	68,100	23,347
1938.	-	-	48,200	17,677	48,200	17,677
1939.	-	-	24,100	8,917	24,100	8,917
1940.	-	-	18,100	7,938	18,100	7,938
1941.	-	-	18,800	8,865	18,800	8,865
1942.	-	-	11,600	8,475	11,600	8,475
1943.	-	-	11,600	7,483	11,600	7,483
1944.	-	-	13,400	10,557	13,400	10,557
1945.	-	-	9,200	8,461	9,200	8,461
1946.	-	-	11,800	13,393	11,800	13,393
1947.	-	-	18,700	22,381	18,700	22,381
1948.	-	-	46,400	51,633	46,400	51,633
1949.	-	-	6,500	4,654	6,500	4,654
1950.	-	-	16,400	16,134	16,400	16,134
1951.	-	-	25,000	28,460	25,000	28,460
1952.	-	-	22,500	30,576	22,500	30,576
1953.	-	-	18,200	28,360	18,200	28,360
1954.	-	-	17,500	29,096	17,500	29,096
1955.	-	-	19,700	36,188	19,700	36,188
1956.	-	-	19,900	37,905	19,900	37,905
1957.	-	-	16,900	32,068	16,900	32,068
1958.	-	-	4,500	9,292	4,500	9,292
1959.	-	-	1,200	2,838	1,200	2,838
1960.	-	-	300	691	300	691
1961.	-	-	14,800	5,110	14,800	5,110
1962.	-	-	13,300	4,717	13,300	4,717
1963.	-	-	13,500	4,726	13,500	4,726
1964.	-	-	4,900	10,277	4,900	10,277

YEAR	PACIFIC 4/			
	WASHINGTON		OREGON	
	POUNDS	VALUE	POUNDS	VALUE
1922.	35,000	(1)	-	-
1923.	9,800	$7,000	-	-
1924.	15,680	9,997	-	-
1925.	28,000	16,000	-	-
1926.	60,000	30,000	-	-
1929.	65,796	23,326	-	-
1930.	228,318	82,875	-	-
1931.	975,758	129,567	-	-
1932.	2,093,945	126,999	-	-
1933.	2,790,750	178,858	25,200	$1,800
1934.	4,925,100	356,059	24,500	1,741
1935.	5,477,200	435,437	9,900	780
1936.	6,306,300	446,377	28,900	2,475
1937.	7,712,700	543,041	87,500	5,400
1938.	8,378,300	523,217	195,100	8,240
1939.	8,290,400	467,578	205,900	8,236
1940.	9,659,900	540,955	923,500	51,716

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PACIFIC COAST STATES OYSTER CATCH, VARIOUS YEARS, 1892-1964 - Continued

YEAR	PACIFIC 4/			
	WASHINGTON		OREGON	
	POUNDS	VALUE	POUNDS	VALUE
1941	11,517,100	$863,784	559,800	$41,985
1942	10,315,000	928,350	137,500	11,000
1943	6,803,100	2,721,250	885,600	303,639
1944	8,114,200	1,363,185	509,900	85,663
1945	9,460,100	1,589,241	575,500	96,691
1946	13,230,200	2,249,127	130,200	22,133
1947	11,235,700	1,910,071	78,800	13,388
1948	9,483,900	1,688,134	59,500	10,716
1949	7,634,600	1,741,207	501,100	85,904
1950	7,085,700	1,771,422	976,100	214,745
1951	7,775,800	1,618,779	805,100	206,914
1952	9,018,400	1,649,621	916,500	198,886
1953	9,595,300	1,452,649	668,000	114,231
1954	10,363,000	1,606,263	436,400	69,825
1955	10,879,300	2,176,539	527,600	105,518
1956	10,579,000	2,454,752	566,800	124,690
1957	9,855,400	1,807,478	428,800	85,760
1958	9,537,300	1,751,455	507,900	101,582
1959	10,057,200	1,798,539	619,600	114,624
1960	9,206,400	1,794,847	493,900	98,786
1961	8,619,500	1,557,168	328,500	72,268
1962	8,876,900	2,119,670	511,900	127,975
1963	8,102,600	2,041,751	387,000	108,700
1964	8,244,100	2,186,779	334,500	105,900

YEAR	PACIFIC 4/ - CONTINUED			
	CALIFORNIA		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE
1922	-	-	35,000	(1)
1923	-	-	9,800	$7,000
1924	-	-	15,680	9,997
1925	-	-	28,000	16,000
1926	-	-	60,000	30,000
1929	-	-	65,796	23,326
1930	-	-	228,318	82,875
1931	58,833	$14,684	1,034,591	144,251
1932	9,142	2,286	2,103,087	129,285
1933	26,824	6,706	2,842,774	187,364
1934	6,700	1,675	4,956,300	359,475
1935	40,000	7,842	5,527,100	444,059
1936	41,400	7,813	6,376,600	456,665
1937	90,700	13,602	7,890,900	562,043
1938	161,000	30,688	8,734,400	562,145
1939	219,900	41,463	8,716,200	517,277
1940	172,300	17,396	10,755,700	610,067
1941	236,200	38,516	12,313,100	944,285
1942	73,100	20,464	10,525,600	959,814
1943	102,000	29,656	7,790,700	3,054,545
1944	76,400	37,135	8,700,500	1,485,983
1945	38,700	19,925	10,074,300	1,705,857
1946	10,600	5,955	13,371,000	2,277,215
1947	5,500	3,140	11,320,000	1,926,599
1948	20,000	11,729	9,563,400	1,710,579
1949	28,200	21,744	8,163,900	1,848,855
1950	17,900	15,250	8,079,700	2,001,417
1951	16,100	14,477	8,597,000	1,840,170
1952	22,600	16,132	9,957,500	1,864,639
1953	19,400	15,949	10,282,700	1,582,829
1954	56,000	24,441	10,855,400	1,700,529
1955	196,200	49,469	11,603,100	2,331,526
1956	735,000	138,654	11,880,800	2,718,096
1957	1,330,100	251,448	11,614,300	2,144,686
1958	1,151,900	225,122	11,197,100	2,078,159
1959	1,651,100	305,287	12,327,900	2,218,450
1960	1,282,400	288,074	10,982,700	2,181,707
1961	1,205,700	290,503	10,153,700	1,919,939
1962	1,325,200	301,701	10,714,000	2,549,346
1963	1,255,500	225,993	9,745,100	2,376,444
1964	1,354,700	243,850	9,933,300	2,536,529

SEE FOOTNOTES AT END OF TABLE.

HISTORICAL FISHERY STATISTICS

PACIFIC COAST STATES OYSTER CATCH, VARIOUS YEARS, 1892-1964 - Continued

YEAR	WESTERN			
	WASHINGTON		OREGON	
	POUNDS	VALUE	POUNDS	VALUE
1892	1,979,000	$147,995	15,000	$3,062
1895	1,297,000	109,232	13,000	2,220
1899	1,180,000	174,567	9,000	1,625
1904	1,833,000	(1)	9,000	(1)
1908	3/1,321,000	3/346,000	3/7,300	3/4,000
1915	815,000	(1)	1,547	725
1922	555,000	(1)	11,000	(1)
1923	681,840	323,770	14,400	4,200
1924	650,700	342,447	11,070	4,305
1925	663,348	350,042	9,693	4,300
1926	697,920	358,631	2,616	2,325
1927	615,792	284,351	2,700	2,250
1928	614,520	312,594	432	480
1929	608,964	356,443	9,000	6,000
1930	302,659	250,502	8,177	5,310
1931	182,197	151,465	5,993	2,854
1932	256,731	133,005	2,476	964
1933	219,968	117,064	4,550	2,600
1934	317,700	179,949	7,800	4,357
1935	326,700	201,581	8,900	5,210
1936	304,800	207,481	7,900	5,283
1937	266,000	193,950	9,600	6,440
1938	262,200	182,299	8,700	4,464
1939	236,500	149,855	9,400	4,675
1940	222,700	133,287	1,300	780
1941	258,200	163,560	1,000	625
1942	239,700	167,790	-	-
1943	167,600	213,972	3,300	2,904
1944	159,300	157,707	-	-
1945	151,100	149,610	-	-
1946	169,300	214,972	-	-
1947	146,000	200,020	-	-
1948	154,500	211,627	-	-
1949	203,000	278,400	-	-
1950	138,800	198,350	-	-
1951	85,400	122,050	-	-
1952	120,200	137,028	-	-
1953	116,500	166,412	-	-
1954	96,600	144,900	-	-
1955	56,200	112,430	-	-
1956	26,100	65,168	-	-
1957	18,500	55,400	-	-
1958	32,200	91,873	-	-
1959	41,500	97,035	-	-
1960	44,900	94,309	-	-
1961	38,100	95,175	-	-
1962	26,300	72,405	-	-
1963	31,000	100,860	-	-
1964	33,700	97,800	-	-

YEAR	WESTERN - CONTINUED				GRAND TOTAL	
	CALIFORNIA		TOTAL			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1892	294,000	$698,257	2,288,000	$849,314	3,310,000	(1)
1895	(2)	(1)	(1)	(1)	2,455,000	(1)
1899	540,000	75,000	1,729,000	251,192	4,249,000	$1,043,192
1904	386,000	(1)	2,228,000	(1)	3,247,767	(1)
1908	3/729,000	3/337,000	3/2,057,300	3/687,000	2,057,300	687,000
1915	11,000	(1)	827,547	(1)	1,468,334	(1)
1922	-	-	566,000	(1)	720,710	(1)
1923	-	-	696,240	327,970	819,804	397,289
1924	-	-	661,770	346,752	766,150	402,687
1925	25	8	673,066	354,350	768,298	404,344
1926	36	20	700,572	360,976	841,894	438,318
1927	-	-	618,492	286,601	787,344	363,443
1928	4,028	1,726	618,980	314,800	765,250	377,413
1929	9,295	4,647	627,259	367,090	745,560	417,976
1930	4,949	3,093	315,785	258,905	618,869	372,749
1931	17,111	8,032	205,301	162,351	1,411,458	361,348
1932	10,930	4,544	270,137	138,513	2,414,851	281,426
1933	1,218	558	225,736	120,222	3,128,395	330,337
1934	5,000	2,728	330,500	187,034	5,376,400	585,665
1935	2,800	1,334	338,400	208,125	5,930,200	683,329
1936	4,300	1,078	317,000	213,842	6,753,800	689,164

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PACIFIC COAST STATES OYSTER CATCH, VARIOUS YEARS, 1892-1964 - Continued

YEAR	WESTERN - CONTINUED				GRAND TOTAL	
	CALIFORNIA		TOTAL			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1937	5,300	$1,768	280,900	$202,158	8,239,900	$787,548
1938	3,900	1,288	274,800	188,051	9,057,400	767,873
1939	1,600	965	247,500	155,495	8,987,800	681,689
1940	3,000	1,754	227,000	135,821	11,000,800	753,826
1941	1,100	373	260,300	164,558	12,592,200	1,117,708
1942	700	228	240,400	168,018	10,777,600	1,136,307
1943	3,700	474	174,600	217,350	7,976,900	3,279,378
1944	-	-	159,300	157,707	8,873,200	1,654,247
1945	-	-	151,100	149,610	10,234,600	1,863,928
1946	-	-	169,300	214,972	13,552,100	2,505,580
1947	-	-	146,000	200,020	11,484,700	2,149,000
1948	-	-	154,500	211,627	9,764,300	1,973,839
1949	-	-	203,000	278,400	8,373,400	2,131,909
1950	4,300	4,770	143,100	203,120	8,239,200	2,220,671
1951	2,200	2,804	87,600	124,854	8,709,600	1,993,484
1952	-	-	120,200	137,028	10,100,200	2,032,243
1953	-	-	116,500	166,412	10,417,400	1,777,601
1954	-	-	96,600	144,900	10,969,500	1,874,525
1955	2,400	3,007	58,600	115,437	11,681,400	2,483,151
1956	700	1,369	26,800	66,537	11,927,500	2,822,538
1957	12,200	3,048	30,700	58,448	11,661,900	2,235,202
1958	2,200	7,527	34,400	99,400	11,236,000	2,186,851
1959	1,100	671	42,600	97,706	12,371,700	2,318,994
1960	-	-	44,900	94,309	11,027,900	2,276,707
1961	-	-	38,100	95,175	10,206,600	2,020,224
1962	-	-	26,300	72,405	10,753,600	2,626,468
1963	-	-	31,000	100,860	9,789,600	2,482,030
1964	-	-	33,700	97,800	9,971,900	2,644,606

1/ DATA NOT AVAILABLE.

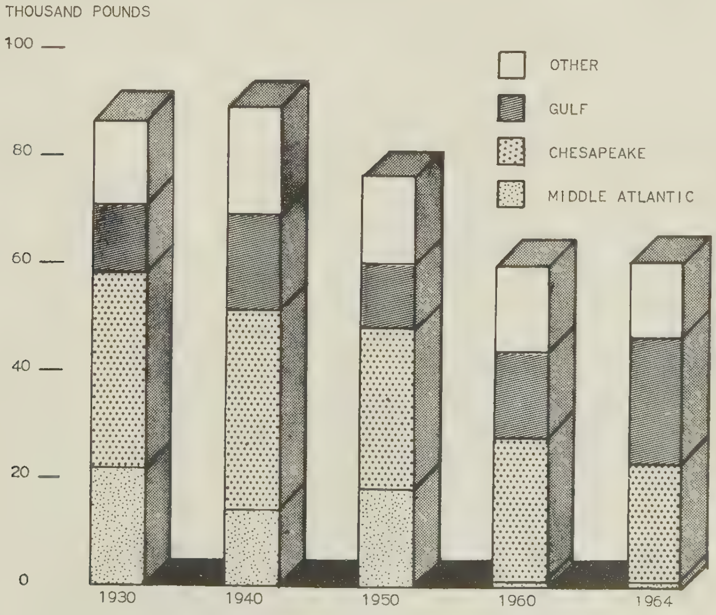
2/ EASTERN AND WESTERN OYSTERS HAVE BEEN COMBINED AND LISTED AS EASTERN OYSTERS.

3/ EASTERN AND WESTERN OYSTERS HAVE BEEN COMBINED AND LISTED AS WESTERN (NATIVE) OYSTERS.

4/ DOES NOT INCLUDE A SMALL PRODUCTION IN ALASKA DURING 1939-49 AND 1956.

NOTE:--DATA ARE SHOWN IN POUNDS OF MEATS.

OYSTER CATCH, VARIOUS YEARS, 1930-64



SUMMARY OF PACIFIC SARDINE FISHERY, 1915-64

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	CALIFORNIA							
	NORTHERN DISTRICT		SAN FRANCISCO DISTRICT		MONTEREY DISTRICT		SANTA BARBARA DISTRICT	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1915	-	-	31	1	4,029	20	1	(1)
1916	-	-	-	-	10,649	(2)	-	-
1917	-	-	3/1,478	(2)	41,125	(2)	-	-
1918	-	-	3,778	(2)	66,250	(2)	-	-
1919	-	-	3/1,452	(2)	86,300	(2)	-	-
1920	-	-	3/1,221	(2)	77,000	(2)	-	-
1921	-	-	3/1,832	(2)	32,500	(2)	-	-
1922	(1)	(1)	170	3	44,679	894	(1)	(1)
1923	(1)	(1)	340	1	86,061	344	1	
1924	(1)	(1)	1,091	16	117,529	823	-	-
1925	-	-	464	9	124,756	786	-	-
1926	-	-	7,057	48	155,162	822	-	-
1927	(1)	(1)	18,742	117	173,956	877	-	-
1928	(1)	(1)	26,966	145	221,568	1,221	-	-
1929	-	-	41,092	216	323,381	1,788	-	-
1930	-	-	48,469	196	259,098	1,178	-	-
1931	-	-	50,661	166	153,432	618	-	-
1932	(1)	(1)	29,358	74	168,284	422	-	-
1933	-	-	62,214	196	254,312	784	-	-
1934	-	-	367,801	1,359	478,923	1,775	-	-
1935	-	-	433,481	1,725	376,151	1,484	-	-
1936	-	-	789,056	3,836	402,943	1,941	-	-
1937	-	-	435,550	2,727	279,194	1,694	-	-
1938	-	-	446,631	2,501	311,386	1,755	-	-
1939	-	-	491,843	2,708	429,600	2,374	-	-
1940	1	(1)	231,359	1,204	363,115	1,930	-	-
1941	1	(1)	395,325	3,291	522,805	3,390	-	-
1942	(1)	(1)	210,688	2,325	332,491	3,589	-	-
1943	1	(1)	244,696	2,708	439,702	4,893	-	-
1944	-	-	284,494	3,135	500,066	5,575	-	-
1945	-	-	185,200	2,056	316,980	3,562	-	-
1946	-	-	6,401	149	71,742	1,155	-	-
1947	-	-	626	17	36,773	916	-	-
1948	7	1	230	6	95,514	3,161	-	-
1949	15	1	33,879	578	262,376	4,565	-	-
1950	1	(1)	26,443	461	41,685	784	95,024	1,416
1951	-	-	165	3	1,757	53	74,973	1,567
1952	-	-	-	-	24	1	2,610	113
1953	-	-	(1)	(1)	1	(1)	973	54
1954	-	-	-	-	12	1	24,433	951
1955	-	-	-	-	937	22	39,732	675
1956	-	-	-	-	1	(1)	15,446	294
1957	-	-	-	-	32	1	23,978	934
1958	-	-	-	-	16,784	509	47,110	1,083
1959	-	-	-	-	29,885	598	5,526	137
1960	-	-	-	-	3,003	65	15,231	425
1961	-	-	-	-	1,110	34	8,582	242
1962	-	-	(1)	(1)	2,592	82	2,175	78
1963	-	-	-	-	1,340	64	400	20
1964	-	-	-	-	415	21	840	25

YEAR	CALIFORNIA - CONTINUED						OREGON	
	SAN PEDRO DISTRICT		SAN DIEGO DISTRICT		TOTAL CALIFORNIA		COASTAL DISTRICT	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1915	329	7	-	-	4,390	28	-	-
1916	2,500	(2)	2,500	(2)	15,649	(2)	-	-
1917	52,500	(2)	9,000	(2)	104,103	(2)	-	-
1918	77,500	(2)	13,125	(2)	160,653	(2)	-	-
1919	55,000	(2)	11,125	(2)	153,877	(2)	-	-
1920	27,800	(2)	12,500	(2)	118,521	(2)	-	-
1921	23,000	(2)	2,000	(2)	59,332	(2)	-	-
1922	44,558	282	2,707	22	92,114	1,201	-	-
1923	67,493	338	5,302	21	159,197	704	-	-
1924	116,957	1,170	7,109	71	242,686	2,080	-	-
1925	174,406	1,186	15,669	107	315,295	2,088	-	-
1926	124,522	658	(4)	(4)	286,741	1,528	-	-
1927	143,549	790	6,028	44	342,275	1,828	-	-
1928	164,619	909	7,117	49	420,270	2,324	-	-
1929	283,369	1,559	3,930	26	651,772	3,589	30	(1)
1930	182,712	978	4,172	26	494,451	2,378	-	-
1931	95,979	400	132	1	300,204	1,185	-	-
1932	113,985	325	545	4	312,172	825	-	-
1933	192,739	522	533	3	509,798	1,505	7	(1)
1934	285,181	1,030	4,054	13	1,135,959	4,177	-	-
1935	292,002	1,111	14,102	50	1,115,736	4,370	52,464	236
1936	252,937	1,050	15,856	64	1,460,792	6,891	28,393	142
1937	347,461	1,903	9,408	49	1,071,613	6,373	33,463	218
1938	259,859	1,550	5,513	26	1,023,389	5,832	34,036	187
1939	238,520	1,329	831	4	1,160,794	6,415	44,653	246
1940	309,391	1,653	2,107	9	905,972	4,796	6,325	32
1941	341,408	2,439	2,941	21	1,262,479	9,141	31,698	247

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF PACIFIC SARDINE FISHERY, 1915-64 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	CALIFORNIA - CONTINUED						OREGON	
	SAN PEDRO DISTRICT		SAN DIEGO DISTRICT		TOTAL CALIFORNIA		COASTAL DISTRICT	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1942	421,619	4,402	4,949	54	969,747	10,370	3,765	38
1943	282,710	3,123	5,161	58	972,269	10,782	3,649	40
1944	359,050	3,965	3,598	40	1,147,208	12,715	4	(2)
1945	337,490	3,730	5,393	59	845,063	9,407	7	(2)
1946	423,992	5,395	8,624	154	510,759	6,853	27	1
1947	212,439	4,743	5,676	126	255,514	5,802	20	1
1948	258,281	7,415	8,005	149	362,037	10,732	1	(1)
1949	331,502	5,554	5,703	59	633,475	10,757	9	(1)
1950	547,412	9,437	3,957	42	619,498	12,140	-	-
1951	246,573	5,548	5,425	76	328,893	7,247	-	-
1952	11,642	407	54	2	14,330	523	-	-
1953	7,849	447	646	27	9,469	528	-	-
1954	111,039	2,732	1,020	17	136,504	3,701	-	-
1955	104,939	2,372	-	-	145,608	3,069	-	-
1956	54,089	1,379	18	1	69,554	1,674	-	-
1957	21,837	851	15	1	45,862	1,787	-	-
1958	143,541	3,847	11	(1)	207,446	5,439	-	-
1959	38,954	740	2	(1)	74,367	1,475	-	-
1960	39,139	693	160	3	57,533	1,186	-	-
1961	33,429	867	48	3	43,169	1,146	-	-
1962	10.596	330	-	-	15,363	490	-	-
1963	5,391	215	-	-	7,131	299	-	-
1964	11,687	431	196	23	13,138	500	-	-

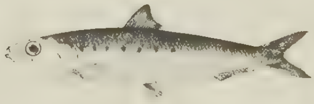
YEAR	OREGON - CONTINUED		WASHINGTON				TOTAL PACIFIC COAST STATES	
	COLUMBIA RIVER DISTRICT		PUGET SOUND DISTRICT		COASTAL DISTRICT			
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1915	-	-	-	-	-	-	4,390	28
1916	-	-	-	-	-	-	15,649	(2)
1917	-	-	-	-	-	-	104,103	(2)
1918	-	-	-	-	-	-	160,653	(2)
1919	-	-	-	-	-	-	153,877	(2)
1920	-	-	-	-	-	-	118,521	(2)
1921	-	-	-	-	-	-	59,332	(2)
1922	-	-	-	-	-	-	92,114	1,201
1923	-	-	-	-	-	-	159,197	704
1924	-	-	-	-	-	-	242,686	2,080
1925	-	-	-	-	-	-	315,295	2,088
1926	-	-	-	-	-	-	286,741	1,528
1927	-	-	-	-	-	-	342,275	1,828
1928	-	-	-	-	-	-	420,270	2,324
1929	-	-	-	-	-	-	651,772	3,589
1930	-	-	-	-	-	-	494,451	2,378
1931	-	-	-	-	-	-	300,204	1,185
1932	-	-	-	-	-	-	312,172	825
1933	-	-	-	-	-	-	509,798	1,505
1934	-	-	-	-	-	-	1,135,959	4,177
1935	-	-	-	-	13	(1)	1,168,213	4,606
1936	-	-	6	(1)	13,108	66	1,502,299	7,099
1937	-	-	22	(1)	34,407	224	1,139,505	6,815
1938	-	-	10	1	52,966	291	1,110,401	6,311
1939	-	-	2	(1)	35,526	195	1,240,975	6,856
1940	-	-	13	(1)	1,633	8	913,943	4,836
1941	-	-	11	(1)	34,189	268	1,328,377	9,656
1942	-	-	31	1	1,137	11	974,680	10,420
1943	-	-	114	7	20,968	231	997,000	11,060
1944	-	-	43	2	40	(2)	1,147,295	12,717
1945	175	2	29	1	4,697	52	849,971	9,462
1946	7,918	173	7	(1)	12,283	268	530,994	7,295
1947	13,852	259	29	1	2,821	77	272,236	6,140
1948	11,013	273	108	5	-	-	373,159	11,010
1949	-	-	56	3	-	-	633,540	10,760
1950	-	-	-	-	-	-	619,498	12,140
1951	-	-	- 1	(2)	-	-	328,894	7,247
1952	-	-	-	-	-	-	14,330	523
1953	-	-	-	-	-	-	9,469	528
1954	-	-	-	-	-	-	136,504	3,701
1955	-	-	-	-	-	-	145,608	3,069
1956	-	-	-	-	-	-	69,554	1,674
1957	-	-	-	-	-	-	45,862	1,787
1958	-	-	-	-	-	-	207,446	5,439
1959	-	-	-	-	-	-	74,367	1,475
1960	-	-	-	-	-	-	57,533	1,186
1961	-	-	-	-	-	-	43,169	1,146
1962	-	-	-	-	-	-	15,363	490
1963	-	-	-	-	-	-	7,131	299
1964	-	-	-	-	-	-	13,138	500

1/ LESS THAN 500 POUNDS OR $500. 2/ DATA NOT AVAILABLE. 3/ DATA ARE PARTLY ESTIMATED. 4/ THE CATCH IN THE SAN DIEGO DISTRICT HAS BEEN INCLUDED WITH THAT FOR SAN PEDRO.

PACIFIC SARDINES, CANNED AND INDUSTRIAL PRODUCTS, 1921-63

YEAR	CANNED		MEAL		OIL	
	1,000 CASES	1,000 DOLLARS	1,000 TONS	1,000 DOLLARS	1,000 POUNDS	1,000 DOLLARS
1921.	399	2,346	(1)	(1)	1,282	36
1922.	715	3,361	(1)	(1)	3,218	146
1923.	1,100	4,608	(1)	(1)	7,245	424
1924.	1,367	5,445	(1)	(1)	17,542	1,077
1925.	1,715	6,381	(1)	(1)	23,400	1,569
1926.	2,093	7,807	(1)	(1)	15,848	933
1927.	2,563	9,269	16	850	18,862	1,117
1928.	2,772	9,659	(1)	(1)	28,695	1,621
1929.	3,831	11,997	37	1,961	48,202	2,816
1930.	2,979	8,742	26	1,415	43,522	1,826
1931.	1,713	4,715	16	610	29,370	808
1932.	954	2,358	25	588	41,468	705
1933.	1,539	3,805	51	1,530	76,980	1,593
1934.	1,970	5,481	89	2,878	156,338	4,414
1935.	2,420	6,237	96	2,638	163,012	6,659
1936.	2,617	7,302	122	3,968	195,982	8,336
1937.	2,812	8,592	89	3,325	119,948	6,204
1938.	2,262	7,102	90	3,438	131,550	5,205
1939.	3,108	9,554	97	4,104	149,970	6,078
1940.	2,946	8,975	70	3,008	94,702	3,761
1941.	5,007	18,092	98	5,942	135,939	9,879
1942.	3,745	15,510	72	5,310	93,817	8,068
1943.	3,355	14,352	76	5,776	104,605	9,302
1944.	3,651	15,226	86	6,583	135,742	11,723
1945.	3,766	15,346	61	4,644	88,898	7,926
1946.	2,977	19,896	37	5,233	36,499	6,843
1947.	1,653	16,538	17	2,556	15,780	2,677
1948.	2,654	21,893	19	2,615	17,464	2,458
1949.	3,768	21,335	39	6,220	45,924	2,873
1950.	5,071	26,346	43	5,270	46,415	4,694
1951.	2,865	19,363	17	2,267	14,569	1,546
1952.	107	918	(2)	52	1157	11
1953.	64	653	(2)	19	98	6
1954.	1,338	9,818	7	843	5,669	421
1955.	1,415	10,014	7	969	6,733	522
1956.	755	5,734	3	370	2,530	181
1957.	498	4,721	1	183	656	55
1958.	2,223	16,497	11	1,390	5,556	427
1959.	755	5,399	3	324	1,409	92
1960.	616	4,659	4	316	1,201	78
1961.	419	3,664	3	257	646	36
1962.	137	1,300	1	73	161	10
1963.	57	685	(3)	(3)	(3)	(3)
1964.	121	1,030	(3)	(3)	(3)	(3)

1/ DATA NOT AVAILABLE.
2/ LESS THAN 500 TONS.
3/ NEGLIGIBLE.



SARDINE, PACIFIC

CATCH OF ATLANTIC OCEAN PERCH, BY YEAR AND PORT, 1930-64

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	MASSACHUSETTS					
	BOSTON		GLOUCESTER		NEW BEDFORD	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1930	88	2	21	(1)	(1)	(1)
1931	175	3	48	(1)	-	-
1932 2/	(2)	(2)	(2)	(2)	(2)	(2)
1933	221	2	34	(1)	-	-
1934	1,288	14	539	5	-	-
1935	14,144	150	2,896	33	-	-
1936	49,419	720	17,094	243	-	-
1937	41,175	641	17,023	246	-	-
1938	34,141	442	29,408	330	-	-
1939	29,319	459	44,424	588	-	-
1940	19,727	330	57,397	845	-	-
1941	24,783	573	99,877	2,008	-	-
1942	9,949	360	91,285	2,740	5	(1)
1943	5,087	249	83,992	3,399	-	-
1944	2,032	84	91,579	3,561	7	(1)
1945	1,377	55	102,037	3,957	15	1
1946	5,219	238	130,899	5,840	195	9
1947	10,526	478	95,357	4,200	498	14
1948	11,383	498	176,801	7,406	350	14
1949	12,113	498	169,281	7,304	80	3
1950	7,740	326	120,291	5,692	474	17
1951	6,598	335	177,694	8,829	47	2
1952	6,945	303	121,586	5,294	3,690	128
1953	4,920	201	88,329	3,408	4	(1)
1954	3,097	141	98,679	4,029	(1)	(1)
1955	3,040	133	86,249	3,327	12	(1)
1956	2,839	116	83,303	3,142	1	(1)
1957	3,819	168	65,389	2,525	-	-
1958	2,625	142	74,951	3,132	-	-
1959	3,280	172	58,197	2,377	-	-
1960	1,481	70	61,673	2,339	-	-
1961	700	40	53,991	2,132	15	(1)
1962	900	49	53,619	2,307	-	-
1963	1,146	67	43,239	2,144	(1)	(1)
1964	1,121	47	29,105	1,232	-	-

YEAR	MAINE				OTHER MAINE AND MASSACHUSETTS PORTS		TOTAL	
	PORTLAND		ROCKLAND					
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1930	4	(1)	-	-	-	-	113	2
1931	10	(1)	-	-	(1)	(1)	233	3
1932 2/	(2)	(2)	(2)	(2)	(2)	(2)	120	1
1933	2	(1)	-	-	-	-	257	2
1934	14	(1)	-	-	-	-	1,841	19
1935	70	1	2	(1)	-	-	17,112	184
1936	79	1	-	-	-	-	66,592	964
1937	129	1	16	(1)	-	-	58,343	888
1938	1,155	13	4	(1)	-	-	64,708	785
1939	3,870	43	1,549	19	-	-	79,162	1,109
1940	6,657	81	1,235	15	-	-	85,016	1,271
1941	14,693	250	6,034	101	-	-	145,387	2,932
1942	13,913	366	12,241	269	673	19	128,066	3,754
1943	12,253	451	11,144	379	2,252	78	114,728	4,556
1944	10,470	378	12,459	433	3,632	125	120,179	4,581
1945	11,231	419	12,345	477	4,806	212	131,811	5,121
1946	20,892	821	15,944	641	4,968	169	178,117	7,718
1947	13,244	423	24,045	723	2,916	86	146,586	5,924
1948	19,942	683	25,359	914	4,257	115	238,092	9,630
1949	24,239	873	30,342	1,109	930	33	236,985	9,820
1950	37,184	1,447	38,950	1,549	3,154	106	207,793	9,137
1951	30,642	1,401	41,816	1,958	1,510	71	258,307	12,596
1952	28,009	1,212	28,841	1,250	3,644	152	192,715	8,339
1953	28,383	1,146	28,939	1,101	3,318	116	153,893	5,972
1954	43,916	1,798	34,884	1,375	872	32	181,448	7,375
1955	34,297	1,248	33,377	1,330	12	(1)	156,987	6,038
1956	33,903	1,239	31,027	1,224	40	1	151,113	5,722
1957	37,107	1,334	27,563	1,060	53	1	133,931	5,088
1958	32,990	1,354	38,028	1,647	50	1	148,644	6,276
1959	36,393	1,466	38,812	1,650	20	(1)	136,702	5,665
1960	37,585	1,429	40,626	1,579	68	3	141,433	5,420
1961	35,782	1,358	41,548	1,584	27	1	132,063	5,115
1962	30,741	1,307	38,702	1,559	12	(1)	123,974	5,222
1963	26,680	1,276	37,199	1,659	28	1	108,292	5,147
1964	26,887	1,208	32,042	1,292	113	2	89,268	3,781

1/ LESS THAN 500 POUNDS OR $500.
2/ DATA NOT AVAILABLE BY PORTS.

CATCH OF ATLANTIC OCEAN PERCH, BY AREAS, 1935-64

(THOUSANDS OF POUNDS)

YEAR	NEW ENGLAND BANKS	NOVA SCOTIA BANKS	GRAND BANK OF NEW-FOUNDLAND	GULF OF ST. LAWRENCE	AREA NOT KNOWN 1/	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1935	16,542	570	-	-	-	17,112
1936	50,967	15,625	-	-	-	66,592
1937	32,065	26,262	-	-	16	58,343
1938	45,231	19,473	-	-	4	64,708
1939	56,010	21,603	-	-	1,549	79,162
1940	58,056	25,725	-	-	1,235	85,016
1941	118,646	20,707	-	-	6,034	145,387
1942	110,762	4,385	-	-	12,919	128,066
1943	94,144	7,189	-	-	13,395	114,728
1944	96,290	7,798	-	-	16,091	120,179
1945	72,669	41,977	-	-	17,165	131,811
1946	82,953	75,016	-	-	20,148	178,117
1947	64,337	42,260	-	-	39,989	146,586
1948	76,361	112,580	110	-	49,041	238,092
1949	51,984	129,498	-	-	55,503	236,985
1950	46,818	81,367	326	-	79,282	207,793
1951	42,310	119,418	16,665	5,973	73,941	258,307
1952	28,794	57,569	34,305	7,893	60,468	189,029
1953	16,090	26,015	36,654	14,512	60,622	153,893
1954	12,576	35,640	22,896	30,665	79,671	181,448
1955	12,773	17,593	11,707	47,230	67,684	156,987
1956	15,927	28,879	11,924	29,416	64,967	151,113
1957	16,546	33,610	1,896	17,157	64,722	133,931
1958	13,035	54,660	2,419	6,911	71,619	148,644
1959	11,639	39,264	6,301	4,274	75,224	136,702
1960	8,537	50,493	3,916	229	78,258	141,433
1961	9,708	41,316	3,570	118	77,351	132,063
1962	10,928	42,165	1,288	149	69,453	123,983
1963	7,693	29,232	742	6,720	63,905	108,292
1964	5,947	15,121	110	9,153	58,937	89,268

1/ CONSISTS PRINCIPALLY OF LANDINGS AT ROCKLAND, ME., DURING THE YEARS PRIOR TO 1947 AND AT ROCKLAND AND PORTLAND, ME., FOR THE YEARS FROM 1947 TO 1964, INCLUSIVE. DATA FOR 1958 INCLUDE LANDINGS AT ROCKLAND AND PORTLAND, ME., AND OFF LABRADOR. DATA WERE NOT COLLECTED ON THE AREA OF CAPTURE FOR THESE LANDINGS.

OCEAN PERCH

PACIFIC HERRING CATCH, PACIFIC COAST STATES, 1882-1964

(MILLIONS OF POUNDS)

YEAR	WASHINGTON, OREGON, AND CALIFORNIA	ALASKA	TOTAL
	QUANTITY	QUANTITY	QUANTITY
1882	(1)	3.0	(1)
1883	(1)	8.4	(1)
1884	(1)	13.2	(1)
1885	(1)	17.0	(1)
1886	(1)	22.0	(1)
1887	(1)	22.2	(1)
1888	(1)	6.0	(1)
1889	(1)	10.5	(1)
1890	(1)	10.5	(1)
1891	(1)	17.6	(1)
1892	5.1	18.7	23.8
1893	(1)	14.4	(1)
1894	(1)	15.3	(1)
1895	3.5	6.5	10.0
1896	(1)	5.6	(1)
1897	(1)	7.1	(1)
1898	(1)	9.0	(1)
1899	2.1	8.1	10.2
1900	(1)	13.0	(1)
1901	(1)	14.6	(1)
1902	(1)	9.5	(1)
1903	(1)	13.7	(1)
1904	2.0	16.0	18.0
1905	(1)	15.1	(1)
1906	(1)	10.2	(1)
1907	(1)	9.7	(1)
1908	3.3	12.2	15.5
1909	(1)	16.5	(1)
1910	(1)	13.7	(1)
1911	(1)	24.3	(1)
1912	(1)	32.1	(1)
1913	(1)	27.0	(1)
1914	(1)	16.9	(1)
1915	3.0	13.9	16.9
1916	(1)	22.7	(1)
1917	(1)	27.5	(1)
1918	(1)	47.7	(1)
1919	(1)	38.0	(1)
1920	(1)	54.4	(1)
1921	(1)	37.7	(1)
1922	0.6	82.5	83.1
1923	0.9	85.8	86.7
1924	0.6	100.6	101.2
1925	1.5	182.1	183.6
1926	3.3	178.6	181.9
1927	2.0	127.7	129.7
1928	2.7	163.1	165.8
1929	1.9	186.0	187.9
1930	1.4	188.8	190.2
1931	1.7	119.5	121.2
1932	1.5	148.8	150.3
1933	1.2	172.6	173.8
1934	1.1	203.3	204.4
1935	1.7	225.8	227.5
1936	1.9	209.1	211.0
1937	1.8	261.4	263.2
1938	0.9	231.0	231.9
1939	0.9	229.7	230.6
1940	1.1	111.4	112.5
1941	1.0	156.2	157.2
1942	0.3	46.0	46.3
1943	1.5	90.3	91.8
1944	1.1	139.1	140.2
1945	1.0	152.7	153.7
1946	1.0	217.2	218.2
1947	2.9	195.3	198.2
1948	8.6	171.0	179.6
1949	1.3	35.2	36.5
1950	1.9	168.4	170.3
1951	5.5	88.2	93.7
1952	10.2	45.5	55.7
1953	8.4	32.4	40.8
1954	1.2	35.3	36.5
1955	2.4	64.2	66.6
1956	2.3	107.4	109.7

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PACIFIC HERRING CATCH, PACIFIC COAST STATES, 1882-1964 - Continued

(MILLIONS OF POUNDS)

YEAR	WASHINGTON, OREGON, AND CALIFORNIA	ALASKA	TOTAL
	QUANTITY	QUANTITY	QUANTITY
1957	2.3	118.3	120.6
1958	10.7	88.8	99.5
1959	7.3	107.4	114.7
1960	5.9	77.9	83.8
1961	5.0	49.5	54.5
1962	7.7	33.9	41.6
1963	7.6	31.2	38.8
1964	4.3	47.9	52.2

1/ DATA NOT AVAILABLE.

PACIFIC HERRING CATCH, WASHINGTON, OREGON, AND CALIFORNIA, VARIOUS YEARS, 1892-1964

(MILLIONS OF POUNDS)

YEAR	WASHINGTON	OREGON	CALIFORNIA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1892	0.6	-	4.5	5.1
1895	0.3	-	3.2	3.5
1899	0.4	(2)	1.7	2.1
1904	0.6	(2)	1.4	2.0
1908	2.5	(2)	0.8	3.3
1915	2.1	(2)	0.9	3.0
1918	(1)	(1)	7.9	(1)
1919	(1)	(1)	4.3	(1)
1920	(1)	(1)	0.3	(1)
1921	(1)	(1)	0.5	(1)
1922	0.3	-	0.3	0.6
1923	0.4	0.1	0.4	0.9
1924	0.2	-	0.4	0.6
1925	0.7	-	0.8	1.5
1926	2.8	-	0.5	3.3
1927	0.8	(2)	1.2	2.0
1928	1.5	(2)	1.2	2.7
1929	0.8	0.1	1.0	1.9
1930	0.5	0.1	0.8	1.4
1931	0.9	0.1	0.7	1.7
1932	0.8	(2)	0.7	1.5
1933	0.6	(2)	0.6	1.2
1934	0.3	(2)	0.8	1.1
1935	0.7	0.1	0.9	1.7
1936	1.0	(2)	0.9	1.9
1937	1.2	(2)	0.6	1.8
1938	0.4	(2)	0.5	0.9
1939	0.6	(2)	0.3	0.9
1940	0.5	0.1	0.5	1.1
1941	0.1	0.1	0.8	1.0
1942	(2)	0.1	0.2	0.3
1943	0.8	0.1	0.6	1.5
1944	0.6	0.1	0.4	1.1
1945	0.5	(2)	0.5	1.0
1946	0.4	0.1	0.5	1.0
1947	1.2	(2)	1.7	2.9
1948	0.5	0.1	8.0	8.6
1949	0.8	0.1	0.4	1.3
1950	0.4	0.1	1.4	1.9
1951	0.5	0.1	4.9	5.5
1952	0.7	(2)	9.5	10.2
1953	0.6	-	7.8	8.4
1954	0.3	(2)	0.9	1.2
1955	0.5	(2)	1.9	2.4
1956	0.5	(2)	1.8	2.3
1957	1.1	(2)	1.2	2.3
1958	8.3	(2)	2.4	10.7
1959	5.6	(2)	1.7	7.3
1960	4.1	(2)	1.8	5.9
1961	3.6	(2)	1.4	5.0
1962	6.4	(2)	1.3	7.7
1963	7.0	(2)	.6	7.6
1964	4.0	(2)	.3	4.3

1/ DATA NOT AVAILABLE. 2/ LESS THAN 50,000 POUNDS.

HISTORICAL FISHERY STATISTICS

PACIFIC HERRING CATCH, ALASKA BY DISTRICTS, 1882-1964

(MILLIONS OF POUNDS)

YEAR	SOUTHEASTERN ALASKA	CENTRAL ALASKA	WESTERN ALASKA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1882	(1)	(1)	(1)	3.0
1883	(1)	(1)	(1)	8.4
1884	(1)	(1)	(1)	13.2
1885	(1)	(1)	(1)	17.0
1886	(1)	(1)	(1)	22.0
1887	(1)	(1)	(1)	22.2
1888	(1)	(1)	(1)	6.0
1889	(1)	(1)	(1)	10.5
1890	(1)	(1)	(1)	10.5
1891	(1)	(1)	(1)	17.6
1892	(1)	(1)	(1)	18.7
1893	(1)	(1)	(1)	14.4
1894	(1)	(1)	(1)	15.3
1895	(1)	(1)	(1)	6.5
1896	(1)	(1)	(1)	5.6
1897	(1)	(1)	(1)	7.1
1898	(1)	(1)	(1)	9.0
1899	(1)	(1)	(1)	8.1
1900	(1)	(1)	(1)	13.0
1901	(1)	(1)	(1)	14.6
1902	(1)	(1)	(1)	9.5
1903	(1)	(1)	(1)	13.7
1904	(1)	(1)	(1)	16.0
1905	(1)	(1)	(1)	15.1
1906	(1)	(1)	(1)	10.2
1907	0.7	2.6	6.4	9.7
1908	0.8	2.0	9.4	12.2
1909	0.9	2.1	13.5	16.5
1910	13.6	0.1	-	13.7
1911	24.1	0.2	-	24.3
1912	32.1	-	-	32.1
1913	27.0	-	-	27.0
1914	16.6	0.3	-	16.9
1915	13.9	-	-	13.9
1916	22.4	0.3	-	22.7
1917	24.8	2.7	-	27.5
1918	35.6	12.1	-	47.7
1919	22.0	16.0	-	38.0
1920	32.9	21.5	-	54.4
1921	12.0	25.7	-	37.7
1922	34.0	48.4	0.1	82.5
1923	42.4	43.3	0.1	85.8
1924	58.7	41.7	0.2	100.6
1925	115.6	66.4	0.1	182.1
1926	147.7	30.7	0.2	178.6
1927	105.6	21.9	0.2	127.7
1928	130.5	22.3	10.3	163.1
1929	165.9	11.9	8.2	186.0
1930	150.9	31.4	6.5	188.8
1931	96.3	17.9	5.3	119.5
1932	105.1	40.1	3.6	148.8
1933	127.1	42.0	3.5	172.6
1934	138.8	60.2	4.3	203.3
1935	122.0	96.3	7.5	225.8
1936	79.1	126.2	3.8	209.1
1937	105.9	155.4	0.1	261.4
1938	50.8	178.8	1.4	231.0
1939	45.4	182.9	1.4	229.7
1940	6.2	103.9	1.3	111.4
1941	10.2	145.5	0.5	156.2
1942	7.4	38.6	-	46.0
1943	18.7	71.6	-	90.3
1944	38.8	100.3	-	139.1
1945	54.8	97.7	0.2	152.7
1946	81.1	136.0	0.1	217.2
1947	89.2	106.1	-	195.3
1948	37.4	133.6	-	171.0
1949	34.9	0.3	-	35.2
1950	31.4	137.0	-	168.4
1951	28.0	60.2	-	88.2
1952	36.2	9.3	-	45.5
1953	30.8	1.6	-	32.4
1954	16.4	18.9	-	35.3
1955	29.0	35.2	-	64.2
1956	50.0	57.4	-	107.4
1957	49.5	68.8	-	118.3
1958	77.6	11.2	-	88.8
1959	99.8	7.6	-	107.4
1960	77.8	.1	-	77.9
1961	49.5	(2)	-	49.5
1962	33.9	(2)	-	33.9
1963	31.2	(2)	-	31.2
1964	46.7	1.2	-	47.9

1/ DATA NOT AVAILABLE. 2/ LESS THAN 50,000 POUNDS.

SOURCE:--DATA FOR THE YEARS FROM 1882 TO 1955 WERE TAKEN FROM OCEAN RESEARCH NOTE 4 ENTITLED "HISTORICAL CATCH STATISTICS ON PACIFIC HERRING" WHICH WAS PREPARED FROM VARIOUS SOURCES BY O. E. SETTE, BIOLOGICAL LABORATORY DIRECTOR FOR OCEAN RESEARCH, STANFORD UNIVERSITY. DATA FOR THE YEARS FOLLOWING 1955 ARE FROM "FISHERY STATISTICS OF THE UNITED STATES."

UNITED STATES AND PUERTO RICO TUNA CATCH BY AREAS, 1944-64

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	ATLANTIC AND GULF COAST STATES		PACIFIC COAST STATES		HAWAII	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1944	829	115	166,320	19,568	(1)	(1)
1945	1,676	247	180,873	21,381	(1)	(1)
1946	1,524	104	214,509	25,927	7,125	1,552
1947	1,749	141	253,941	41,648	7,480	1,784
1948	3,599	274	316,003	58,695	9,868	2,091
1949	3,468	259	330,239	53,674	11,079	1,970
1950	1,563	123	389,891	61,219	11,918	2,076
1951	2,479	184	316,433	47,623	15,725	2,569
1952	1,896	172	320,798	49,062	10,459	2,036
1953	2,013	126	300,791	46,726	15,556	2,521
1954	1,515	114	321,181	52,899	17,335	2,575
1955	1,004	59	269,362	39,435	11,958	1,896
1956	878	131	328,604	43,290	13,720	2,066
1957	1,700	189	295,035	37,334	8,156	1,528
1958	3,114	292	316,263	42,892	8,855	1,642
1959	3,245	196	268,330	35,000	14,334	2,233
1960	1,418	81	287,765	35 752	9.020	1.738
1961	2,371	133	310,970	40,226	12,463	1,987
1962	7,214	547	293,880	42,644	11,063	1,921
1963	14,768	957	297,343	37,455	9,508	1,758
1964	9,111	722	286,311	36,766	10,407	1.910

YEAR	TOTAL, UNITED STATES		PUERTO RICO		TOTAL, UNITED STATES AND PUERTO RICO	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1944	(1)	(1)	(1)	(1)	(1)	(1)
1945	(1)	(1)	(1)	(1)	(1)	(1)
1946	223,158	27,583	(1)	(1)	(1)	(1)
1947	263,170	43,573	(1)	(1)	(1)	(1)
1948	329,470	61,060	(1)	(1)	(1)	(1)
1949	344,786	55,903	(1)	(1)	(1)	(1)
1950	403,372	63,418	(1)	(1)	(1)	(1)
1951	334,637	50,376	(1)	(1)	(1)	(1)
1952	333,153	51,270	(1)	(1)	(1)	(1)
1953	318,360	49.373	2,704	(1)	321,064	(1)
1954	340,031	55,588	6,388	(1)	346,419	(1)
1955	282,324	41,390	9,549	(1)	291,873	(1)
1956	343,202	45,487	12,000	(1)	355,202	(1)
1957	304,891	39,051	18,393	(1)	323,284	(1)
1958	328,232	44,826	16,652	(1)	344,884	(1)
1959	285,909	37,429	22,090	(1)	307,999	(1)
1960	298,203	37,571	20,910	(1)	319,113	(1)
1961	325,804	42,346	31,050	(1)	356,854	(1)
1962	312,157	45,112	28,790	(1)	340,947	(1)
1963	321,619	40,170	37,026	3,720	358,645	43,890
1964	305,829	39,398	48,393	4,961	354,222	44,359

1/ DATA NOT AVAILABLE. THE FIRST TUNA CANNERY IN PUERTO RICO BEGAN OPERATIONS IN 1953.

SKIPJACK TUNA

TUNA CATCH BY SPECIES, ATLANTIC AND GULF COAST STATES, 1930-64

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	BLUEFIN		LITTLE		SKIPJACK	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1930	296	19	-	-	-	-
1931	321	22	-	-	-	-
1932	315	15	-	-	-	-
1933	444	20	-	-	-	-
1934	(1)	(1)	-	-	-	-
1935	562	16	-	-	-	-
1936	(1)	(1)	-	-	-	-
1937	1,023	36	-	-	-	-
1938	1,823	68	-	-	-	-
1939	949	35	-	-	-	-
1940	1,155	40	-	-	-	-
1941	2/ 1,049	37	-	-	-	-
1942	827	75	-	-	-	-
1943	3/ 480	65	-	-	-	-
1944	829	115	-	-	-	-
1945	1,374	241	302	6	-	-
1946	4/ 1,184	94	4/ 340	10	-	-
1947	1,087	114	662	27	-	-
1948	2,997	214	602	60	-	-
1949	2,738	207	730	52	-	-
1950	1,267	112	296	11	-	-
1951	1,760	131	371	8	-	-
1952	565	58	747	30	5/ 172	21
1953	1,945	123	68	3	-	-
1954	1,428	109	72	3	-	-
1955	897	55	107	4	-	-
1956	458	84	88	5	-	-
1957	1,001	107	33	2	-	-
1958	2,476	214	13	(6)	-	-
1959	2,820	159	179	6	-	-
1960	1,403	81	15	(6)	-	-
1961	2,368	133	3	(6)	-	-
1962	7,075	537	17	(6)	85	6
1963	10,012	585	12	1	4,277	314
1964	6,440	482	4	(6)	2,267	195

YEAR	YELLOWFIN		UNCLASSIFIED		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1930	-	-	-	-	296	19
1931	-	-	-	-	321	22
1932	-	-	-	-	315	15
1933	-	-	-	-	444	20
1934	-	-	-	-	(1)	(1)
1935	-	-	-	-	562	16
1936	-	-	-	-	(1)	(1)
1937	-	-	-	-	1,023	36
1938	-	-	-	-	1,823	68
1939	-	-	-	-	949	35
1940	-	-	-	-	1,155	40
1941	-	-	-	-	1,049	37
1942	-	-	-	-	827	75
1943	-	-	-	-	480	65
1944	-	-	-	-	829	115
1945	-	-	-	-	1,676	247
1946	-	-	-	-	1,524	104
1947	-	-	-	-	1,749	141
1948	-	-	-	-	3,599	274
1949	-	-	-	-	3,468	259
1950	-	-	-	-	1,563	123
1951	5/ 348	45	-	-	2,479	184
1952	412	63	-	-	1,896	172
1953	-	-	-	-	2,013	126
1954	15	2	-	-	1,515	114
1955	-	-	-	-	1,004	59
1956	332	42	-	-	878	131
1957	666	80	-	-	1,700	189
1958	625	78	-	-	3,114	292
1959	246	31	-	-	3,245	196
1960	-	-	-	-	1,418	81
1961	-	-	-	-	2,371	133
1962	37	4	-	-	7,214	547
1963	456	56	11	1	14,768	957
1964	277	36	123	9	9,111	722

1/ DATA NOT AVAILABLE. 2/ AS A DETAILED SURVEY WAS NOT CONDUCTED IN THE NEW ENGLAND AND MIDDLE ATLANTIC STATES FOR 1941, DATA ON THE BLUEFIN CATCH FOR 1940 HAVE BEEN USED EXCEPT FOR LANDINGS AT BOSTON AND GLOUCESTER, MASSACHUSETTS, AND PORTLAND, MAINE, FOR WHICH 1941 DATA WERE AVAILABLE. 3/ INCLUDES 1942 DATA FOR THE CHESAPEAKE BAY STATES AS NO SURVEY WAS MADE IN THIS AREA IN 1943. 4/ INCLUDES 1945 DATA FOR NEW JERSEY AND DELAWARE AS NO SURVEY WAS MADE IN THESE STATES FOR 1946. 5/ FISH WERE CAUGHT IN THE PACIFIC AREA, BUT LANDED ON THE ATLANTIC OR GULF COASTS. 6/ LESS THAN $500.

TUNA CATCH BY SPECIES, PACIFIC COAST STATES, 1911-64

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	ALBACORE		BLUEFIN		SKIPJACK		YELLOWFIN		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1911	1/ 850	5	-	-	-	-	-	-	1/ 850	5
1912	1/ 3,400	20	-	-	-	-	-	-	1/ 3,400	20
1913	1/ 6,600	53	-	-	-	-	-	-	1/ 6,600	53
1914	1/18,470	222	-	-	-	-	-	-	1/18,470	222
1915	21,074	316	-	-	-	-	-	-	21,074	316
1916	22,899	2/ 800	3/20.540	3/ 700	(3)	(3)	(3)	(3)	43,439	1,500
1917	30,556	2/1,222	1,150	25	420	11	-	-	32,126	1,258
1918	7,265	400	6,240	218	3,024	91	-	-	16,529	709
1919	13,631	845	14,991	(4)	6,897	241	348	(4)	35,867	(4)
1920	18,877	1,982	10,530	(4)	7,957	378	1,965	(4)	39,329	(4)
1921	15,277	1,222	2,032	(4)	1,139	25	1,238	(4)	19,686	(4)
1922	13,232	1,151	2,838	(4)	11,862	270	7,337	(4)	35,269	(4)
1923	12,515	1,627	3,301	(4)	11,463	298	10,837	(4)	38,116	(4)
1924	17,695	1,829	3,241	(4)	3,781	179	3,063	(4)	27,780	(4)
1925	22,207	2,333	3,804	(4)	14,235	752	13,238	(4)	53,484	(4)
1926	2,469	2/ 222	6,527	(4)	20,995	873	12,565	591	42,556	(4)
1927	4,579	517	4,898	312	33,807	1,261	25,934	1,304	69,218	3,394
1928	283	42	13,701	823	15,815	562	32,251	1,774	62,050	3,201
1929	269	40	7,527	490	26,998	1,081	37,399	2,200	72,193	3,811
1930	286	24	21,921	1,238	20,486	790	56,654	3,396	99,347	5,448
1931	37	3	3,534	169	16,507	504	36,580	1,979	56,658	2,655
1932	620	31	1,071	51	21,637	751	36,923	1,505	60,251	2,338
1933	2	(5)	560	29	16,687	613	51,076	2,275	68,325	2,917
1934	121	9	18,358	846	14,830	594	60,913	3,053	94,222	4,502
1935	2,448	200	25,173	1,145	17,197	688	72,252	3,620	117,070	5,653
1936	984	91	18,925	922	26,992	1,191	78,353	4,139	125,254	6,343
1937	3,520	287	12,694	725	47,104	2,319	91,523	5,458	154,841	8,789
1938	17,726	966	17,728	983	22,654	1,133	78,318	4,705	136,426	7,787
1939	18,922	1,009	11,836	602	30,121	1,300	110,418	5,912	171,297	8,823
1940	14,502	995	19,970	1,117	56,650	2,743	113,760	6,707	204,882	11,563
1941	11,932	1,712	9,519	581	25,586	1,362	76,702	4,851	123,739	8,506
1942	23,540	4,566	12,845	1,159	38,735	3,335	41,467	3,836	116,587	12,896
1943	37,518	6,104	10,178	967	28,894	2,583	49,262	4,881	125,852	14,535
1944	52,795	8,666	20,344	1,939	30,037	2,694	63,144	6,269	166,320	19,568
1945	39,483	7,697	20,594	1,984	33,348	2,982	87,448	8,718	180,873	21,381
1946	24,142	4,784	22,032	2,246	41,088	4,283	127,247	14,614	214,509	25,927
1947	26,844	6,780	20,838	3,321	52,749	7,628	153,510	23,919	253,941	41,648
1948	6/49,493	14,659	6,529	1,096	60,554	9,534	199,427	33,406	316,003	58,695
1949	54,794	10,039	4,389	713	80,512	11,923	190,544	30,999	330,239	53,674
1950	7/72,453	13,839	2,762	426	126,786	18,131	187,890	28,823	389,891	61,219
1951	34,491	5,403	3,862	604	116,599	16,655	161,481	24,961	316,433	47,623
1952	52,558	9,146	4,577	733	84,844	10,908	178,819	28,275	320,798	49,062
1953	34,700	6,920	9,773	1,550	122,978	16,943	133,340	21,313	300,791	46,726
1954	26,998	5,426	21,025	3,553	153,756	23,345	119,402	20,575	321,181	52,899
1955	29,738	4,826	13,609	1,941	102,807	13,799	123,208	18,869	269,362	39,435
1956	41,338	7,082	12,626	1,650	123,717	14,189	150,923	20,369	328,604	43,290
1957	46,659	6,732	20,315	2,417	90,821	9,991	137,240	18,194	295,035	37,334
1958	38,445	7,897	30,719	4,029	123,372	14,239	123,727	16,727	316,263	42,892
1959	46,284	8,631	15,194	1,876	98,482	10,424	108,370	14,069	268,330	35,000
1960	40,202	5,939	11,952	1,456	46,304	4,791	189,307	23,566	287,765	35,752
1961	32,830	5,863	20,883	2,705	65,403	7,219	191,854	24,439	310,970	40,226
1962	45,938	7,602	31,200	4,368	92,721	11,922	124,021	18,752	293,880	42,644
1963	60,787	9,159	30,353	3,392	96,620	10,374	109,583	14,530	297,343	37,455
1964	48,061	7,466	23,171	2,827	66,059	6,624	149,020	19,849	286,311	36,766

1/ ESTIMATED ON THE BASIS OF PACK AS REPORTED BY TUNA CANNERS.

2/ ESTIMATED.

3/ THE CATCH OF SKIPJACK AND YELLOWFIN HAS BEEN INCLUDED WITH THAT OF BLUEFIN.

4/ DATA NOT AVAILABLE.

5/ LESS THAN $500.

6/ INCLUDES 132,000 POUNDS, VALUED AT $32,000 LANDED IN ALASKA.

7/ INCLUDES 39,000 POUNDS, VALUED AT $4,000 LANDED IN ALASKA.

NOTE:--HAWAII LANDINGS OF TUNA ARE NOT INCLUDED IN THIS TABLE. DATA FROM 1911 TO 1923 BASED ON STATISTICS PUBLISHED BY THE BUREAU OF FISHERIES, THE CALIFORNIA BUREAU OF MARINE FISHERIES (FISH BULLETIN NO. 74), AND THE U. S. TARIFF COMMISSION IN THEIR REPORT TO THE U. S. SENATE ON TUNA FISH, REPORT NO. 109, SECOND SERIES.

TUNA CATCH BY SPECIES AND GEAR, PACIFIC COAST STATES, 1936-64

(THOUSANDS OF POUNDS)

YEAR	ALBACORE				BLUEFIN			
	SEINES	LINES	OTHER	TOTAL	SEINES	LINES	OTHER	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1936	33	951	-	984	18,422	503	-	18,925
1937	87	3,433	(1)	3,520	12,521	173	(1)	12,694
1938	14	17,712	(1)	17,726	17,248	480	(1)	17,728
1939	169	18,753	(1)	18,922	11,678	157	1	11,836
1940	157	14,345	-	14,502	19,904	60	6	19,970
1941	7	11,923	2	11,932	9,107	411	1	9,519
1942	10	23,530	-	23,540	12,820	24	1	12,845
1943	8	37,510	-	37,518	10,154	24	(1)	10,178
1944	9	52,773	13	52,795	20,319	25	(1)	20,344
1945	5	39,478	-	39,483	20,441	150	3	20,594
1946	53	24,089	-	24,142	21,944	88	(1)	22,032
1947	41	26,803	-	26,844	20,706	132	-	20,838
1948	32	2/49,461	-	2/49,493	6,519	10	-	6,529
1949	215	54,579	-	54,794	4,307	82	-	4,389
1950	8	3/72,445	-	3/72,453	2,722	40	-	2,762
1951	12	34,479	-	34,491	3,858	4	-	3,862
1952	7	52,551	-	52,558	4,575	2	-	4,577
1953	1	34,699	-	34,700	9,754	19	-	9,773
1954	-	26,998	-	26,998	21,008	17	-	21,025
1955	-	29,738	-	29,738	13,479	130	-	13,609
1956	-	41,338	-	41,338	12,626	-	-	12,626
1957	36	46,623	-	46,659	20,315	-	-	20,315
1958	-	38,445	-	38,445	30,667	52	-	30,719
1959	2	46,282	-	46,284	15,194	-	-	15,194
1960	30	40,172	-	40,202	11,952	-	-	11,952
1961	2,000	30,830	-	32,830	20,883	-	-	20,883
1962	732	45,206	-	45,938	31,200	-	-	31,200
1963	2,741	58,046	-	60,787	30,353	-	-	30,353
1964	388	47,673	-	48,061	23,097	74	-	23,171

YEAR	SKIPJACK				YELLOWFIN			
	SEINES	LINES	OTHER	TOTAL	SEINES	LINES	OTHER	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1936	2,268	24,724	-	26,992	5,002	73,351	-	78,353
1937	6,523	40,581	-	47,104	9,247	82,276	-	91,523
1938	1,442	21,212	-	22,654	4,013	74,305	-	78,318
1939	6,169	23,952	-	30,121	19,344	91,074	-	110,418
1940	13,098	43,552	-	56,650	15,237	98,523	-	113,760
1941	1,802	23,784	-	25,586	5,431	71,271	-	76,702
1942	1,258	37,477	-	38,735	4,257	37,210	-	41,467
1943	1,123	27,771	-	28,894	6,912	42,350	-	49,262
1944	3,730	26,307	-	30,037	10,105	53,039	-	63,144
1945	4,240	29,108	-	33,348	18,175	69,273	(1)	87,448
1946	9,666	31,422	(1)	41,088	27,978	99,269	-	127,247
1947	8,284	44,465	-	52,749	29,414	124,096	-	153,510
1948	5,935	54,619	-	60,554	39,939	159,488	-	199,427
1949	4,155	76,357	-	80,512	26,543	164,001	-	190,544
1950	11,875	114,911	-	126,786	39,679	148,211	-	187,890
1951	12,854	103,745	-	116,599	14,530	146,951	-	161,481
1952	10,764	74,080	-	84,844	30,748	148,071	-	178,819
1953	11,654	111,324	-	122,978	37,440	95,900	-	133,340
1954	18,664	135,092	-	153,756	22,089	97,313	-	119,402
1955	13,760	89,047	-	102,807	29,325	93,883	-	123,208
1956	6,973	116,744	-	123,717	40,105	110,818	-	150,923
1957	6,290	84,531	-	90,821	33,230	104,010	-	137,240
1958	11,658	111,714	-	123,372	34,449	89,278	-	123,727
1959	10,918	87,564	-	98,482	51,304	57,066	-	108,370
1960	18,284	28,020	-	46,304	143,873	45,434	-	189,307
1961	46,436	18,967	-	65,403	164,995	26,859	-	191,854
1962	79,006	13,715	-	92,721	105,473	18,548	-	124,021
1963	84,786	11,834	-	96,620	97,245	12,338	-	109,583
1964	57,969	9,090	-	66,059	140,116	8,904	-	149,020

1/ LESS THAN 500 POUNDS.

2/ INCLUDES 132,000 POUNDS LANDED IN ALASKA.

3/ INCLUDES 39,000 POUNDS LANDED IN ALASKA.

HISTORICAL FISHERY STATISTICS

TUNA CATCH BY SPECIES AND AREA OF CAPTURE, PACIFIC COAST STATES, 1911-64

(THOUSANDS OF POUNDS)

YEAR	ALBACORE		BLUEFIN		SKIPJACK		YELLOWFIN		TOTAL		
	OFF 1/ PACIFIC COAST STATES	OFF LATIN AMERICA	OFF PACIFIC COAST STATES	OFF LATIN AMERICA	OFF PACIFIC COAST STATES	OFF LATIN AMERICA	OFF PACIFIC COAST STATES	OFF LATIN AMERICA	OFF PACIFIC COAST STATES	OFF LATIN AMERICA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1911	2/ 850	-	-	-	-	-	-	-	2/ 850	-	2/ 850
1912	2/ 3,400	-	-	-	-	-	-	-	2/ 3,400	-	2/ 3,400
1913	2/ 6,600	-	-	-	-	-	-	-	2/ 6,600	-	2/ 6,600
1914	2/18,470	-	-	-	-	-	-	-	2/18,470	-	2/18,470
1915	21,074	-	-	-	-	-	-	-	21,074	-	21,074
1916	22,899	-	3/20,540	-	(3)	-	(3)	-	43,439	-	43,439
1917	30,556	-	1,150	-	420	-	-	-	32,126	-	32,126
1918	7,263	2	6,240	-	3,024	-	-	-	16,527	2	16,529
1919	13,551	80	14,991	-	6,882	15	348	-	35,772	95	35,867
1920	18,877	-	10,530	-	7,939	18	1,465	500	38,811	518	39,329
1921	15,275	2	1,972	60	1,139	(4)	1,188	50	19,574	112	19,686
1922	13,232	-	2,811	27	10,117	1,745	1,177	6,160	27,337	7,932	35,269
1923	12,488	27	3,218	83	4,579	6,884	194	10,643	20,479	17,637	38,116
1924	17,280	415	3,241	-	1,356	2,425	619	2,444	22,496	5,284	27,780
1925	21,685	522	3,804	-	8,768	5,467	2,923	10,315	37,180	16,304	53,484
1926	2,469	(4)	6,527	-	14,261	6,734	2,695	9,870	25,952	16,604	42,556
1927	4,455	124	4,898	(4)	5,804	28,003	595	25,339	15,752	53,466	69,218
1928	283	-	13,701	-	4,263	11,552	83	32,168	18,330	43,720	62,050
1929	269	(4)	7,477	50	8,032	18,966	199	37,200	15,977	56,216	72,193
1930	286	-	15,599	6,322	3,015	17,471	36	56,618	18,936	80,411	99,347
1931	37	-	2,358	1,176	11,966	4,541	155	36,425	14,516	42,142	56,658
1932	620	-	460	611	375	21,262	165	36,758	1,620	58,631	60,251
1933	2	-	324	236	(4)	16,687	7	51,069	333	67,992	68,325
1934	121	-	18,292	66	-	14,830	19	60,894	18,432	75,790	94,222
1935	2,387	61	18,496	6,677	1,908	15,289	529	71,723	23,320	93,750	117,070
1936	984	-	13,809	5,116	8,457	18,535	767	77,586	24,017	101,237	125,254
1937	3,520	-	10,822	1,872	1,884	45,220	188	91,335	16,414	138,427	154,841
1938	17,696	30	16,512	1,216	3	22,651	11	78,307	34,222	102,204	136,426
1939	18,918	4	9,319	2,517	2,719	27,402	457	109,961	31,413	139,884	171,297
1940	14,501	1	18,850	1,120	2,985	53,665	238	113,522	36,574	168,308	204,882
1941	11,932	-	8,848	671	4,215	21,371	2	76,700	24,997	98,742	123,739
1942	20,916	2,624	10,332	2,513	218	38,517	1	41,466	31,467	85,120	116,587
1943	28,019	9,499	7,664	2,514	18	28,876	2	49,260	35,703	90,149	125,852
1944	43,020	9,775	16,084	4,260	4	30,033	(4)	63,144	59,108	107,212	166,320
1945	27,221	12,262	14,139	6,455	93	33,255	5	87,443	41,458	139,415	180,873
1946	15,180	8,962	15,529	6,503	1,747	39,341	33	127,214	32,489	182,020	214,509
1947	21,082	5,762	14,756	6,082	893	51,856	3	153,507	36,734	217,207	253,941
1948	5/23,567	25,926	1,694	4,835	319	60,235	(4)	199,427	25,580	290,423	316,003
1949	31,217	23,577	2,266	2,123	27	80,485	10	190,534	33,520	296,719	330,239
1950	6/48,877	23,576	32	2,730	2,281	124,505	6,520	181,370	57,710	332,181	389,891
1951	16,869	17,622	837	3,025	706	115,893	1,235	160,246	19,647	296,786	316,433
1952	25,860	26,698	907	3,670	109	84,735	381	178,438	27,257	293,541	320,798
1953	14,209	20,491	3,904	5,869	669	122,309	1,254	132,086	20,036	280,755	300,791
1954	15,180	11,818	5,648	15,377	14	153,742	-	119,402	20,842	300,339	321,181
1955	10,048	19,690	2,670	10,939	970	101,837	916	122,292	14,604	254,758	269,362
1956	20,274	21,064	2,612	10,014	3,565	120,152	1,642	149,281	28,093	300,511	328,604
1957	25,747	20,912	10,486	9,829	676	90,145	355	136,885	37,264	257,771	295,035
1958	37,720	725	15,280	15,439	3,016	120,356	727	123,000	56,743	259,520	316,263
1959	46,284	-	13,025	2,169	1,382	97,100	82	108,288	60,773	207,557	268,330
1960	37,215	2,987	4,339	7,614	24	46,280	10	189,296	41,588	246,177	287,765
1961	24,445	8,385	13,763	7,120	1	65,402	-	191,854	38,209	272,761	310,970
1962	41,362	4,576	17,040	14,160	-	92,721	(4)	124,021	58,402	235,478	293,880
1963	53.853	6.934	7.131	23,222	2,224	94.396	60	109,523	63,268	234,075	297,343
1964	39,378	8,683	4,655	18,516	4	66,055	(4)	149,020	44,037	242,274	286,311

1/ INCLUDES THE CATCH TAKEN OFF BRITISH COLUMBIA.

2/ ESTIMATED ON THE BASIS OF PACK AS REPORTED BY TUNA CANNERS.

3/ THE CATCH OF SKIPJACK AND YELLOWFIN HAS BEEN INCLUDED WITH THAT OF BLUEFIN.

4/ LESS THAN 500 POUNDS.

5/ INCLUDES A CATCH OF 132,000 POUNDS LANDED IN ALASKA.

6/ INCLUDES A CATCH OF 39,000 POUNDS LANDED IN ALASKA.

NOTE:--DATA FROM 1911 TO 1923 BASED ON STATISTICS PUBLISHED BY THE BUREAU OF FISHERIES, THE CALIFORNIA BUREAU OF MARINE FISHERIES (FISH BULLETIN NO. 74), AND THE U. S. TARIFF COMMISSION IN THEIR REPORT TO THE U. S. SENATE ON TUNA FISH, REPORT NO. 109, SECOND SERIES.

TUNA CATCH BY SPECIES, HAWAII, 1946-64

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	ALBACORE		BLUEFIN 1/		LITTLE	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1946.	(2)	(2)	2/1,495	2/498	-	-
1947.	(2)	(2)	2/1,759	2/777	135	37
1948.	(2)	(2)	2/1,875	2/800	-	-
1949.	(2)	(2)	2/2,013	2/715	-	-
1950.	61	12	1,823	547	-	-
1951.	56	14	2,035	601	-	-
1952.	105	24	2,206	688	-	-
1953.	49	9	2,826	761	-	-
1954.	29	5	2,759	672	-	-
1955.	21	4	2,153	687	-	-
1956.	13	4	2,271	714	-	-
1957.	10	3	1,633	620	-	-
1958.	16	4	1,596	622	-	-
1959.	11	2	1,322	574	19	4
1960.	9	3	1,296	581	4	1
1961.	14	4	1,037	508	2	(3)
1962.	17	4	1,221	598	13	2
1963.	15	5	948	502	60	8
1964.	9	3	839	494	35	6

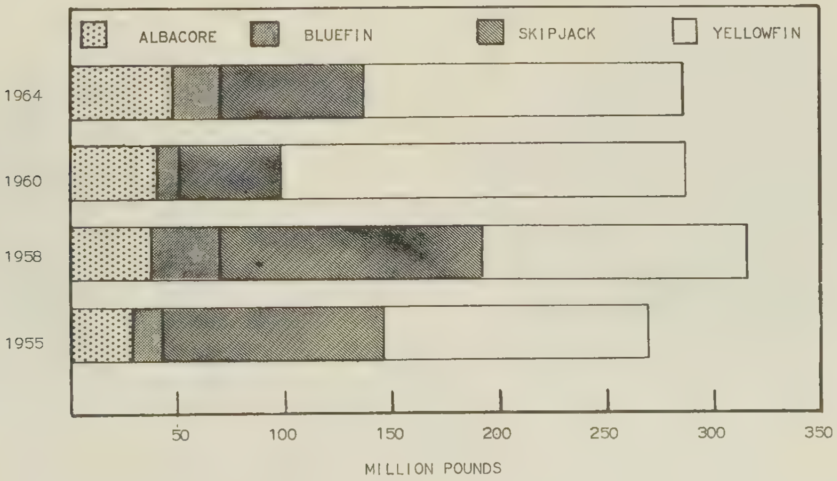
YEAR	SKIPJACK		YELLOWFIN		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1946.	5,630	1,054	(2)	(2)	7,125	1,552
1947.	5,586	970	(2)	(2)	7,480	1,784
1948.	7,993	1,291	(2)	(2)	9,868	2,091
1949.	9,066	1,255	(2)	(2)	11,079	1,970
1950.	9,312	1,317	722	200	11,918	2,076
1951.	12,877	1,728	757	226	15,725	2,569
1952.	7,292	1,064	856	260	10,459	2,036
1953.	12,059	1,594	622	157	15,556	2,521
1954.	14,021	1,761	526	137	17,335	2,575
1955.	9,340	1,065	444	140	11,958	1,896
1956.	11,132	1,262	304	86	13,720	2,066
1957.	6,130	794	383	111	8,156	1,528
1958.	6,835	899	408	117	8,855	1,642
1959.	12,413	1,475	569	178	14,334	2,233
1960.	7,356	1,001	355	152	9,020	1,738
1961.	10,951	1,307	459	168	12,463	1,987
1962.	9,415	1,174	397	143	11,063	1,921
1963.	8,100	1,090	385	153	9,508	1,758
1964.	9,024	1,222	500	185	10,407	1,910

1/ INCLUDES THE CATCH OF BIGEYE TUNA.

2/ THE CATCH OF ALBACORE AND YELLOWFIN HAS BEEN INCLUDED WITH THAT OF BLUEFIN TUNA.

3/ LESS THAN $500.

PACIFIC COAST TUNA CATCH, VARIOUS YEARS, 1955-64



SHRIMP LANDINGS, SOUTH ATLANTIC STATES, VARIOUS YEARS, 1880-1964

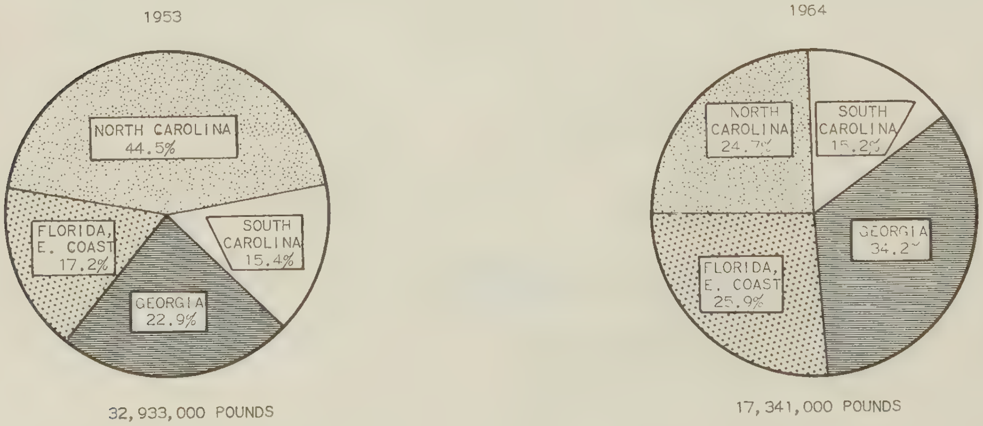
(THOUSANDS OF POUNDS)

YEAR	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA			TOTAL, EXCLUSIVE OF FLORIDA WEST COAST
				EAST COAST	WEST COAST	TOTAL	
1880.	63	630	56	72	1,172	1,244	821
1887.	120	338	185	-	(1)	(1)	(1)
1888.	124	359	191	152	(1)	(1)	(1)
1889.	135	380	150	78	-	78	743
1890.	144	372	162	66	-	66	744
1897.	146	374	68	39	-	39	627
1902.	84	370	344	3,013	17	3,030	3,811
1908.	371	452	528	4,346	7	4,353	5,697
1918.	940	55	5,793	8,868	3,250	12,118	15,656
1923.	1,658	355	10,688	11,024	2,881	13,905	23,725
1927.	1,276	1,657	12,280	14,779	2,390	17,169	29,992
1928.	845	431	9,526	22,507	2,877	25,384	33,309
1929.	897	288	12,378	17,266	1,353	18,619	30,829
1930.	1,299	793	8,853	15,260	1,589	16,849	26,205
1931.	338	2,635	5,471	17,050	1,803	18,853	25,494
1932.	292	1,501	3,602	17,068	1,068	18,136	22,463
1934.	2,564	1,801	6,843	14,753	1,539	16,292	25,961
1936.	3,815	1,101	9,715	18,936	1,789	20,725	33,567
1937.	4,184	1,201	9,504	12,547	1,490	14,037	27,436
1938.	4,569	3,723	10,426	8,847	1,296	10,143	27,565
1939.	4,811	4,090	10,802	7,982	800	8,782	27,685
1940.	4,156	1,784	9,336	7,426	942	8,368	22,702
1945.	10,614	4,696	16,392	11,879	1,783	13,662	43,581
1950.	8,311	7,746	11,157	9,267	13,639	22,906	36,481
1951.	8,200	3,730	7,608	8,233	29,756	37,989	27,771
1952.	8,713	4,072	5,991	6,895	37,130	44,025	25,671
1953.	14,645	5,086	7,535	5,667	52,804	58,471	32,933
1954.	9,182	6,644	7,742	5,078	45,800	50,878	28,646
1955.	10,324	6,918	7,161	4,136	48,598	52,734	28,539
1956.	6,243	5,589	7,991	5,695	49,115	54,810	25,518
1957.	7,933	6,690	8,788	5,179	41,921	47,100	28,590
1958.	2,519	5,815	8,746	5,504	45,606	51,110	22,584
1959.	6,378	7,515	7,602	4,511	32,252	36,763	26,006
1960.	5,988	8,030	10,403	6,793	44,464	51,257	31,214
1961.	3,016	3,907	6,810	6,016	36,069	42,085	19,749
1962.	5,805	6,474	8,610	5,189	32,146	37,335	26,078
1963.	3,374	2,201	5,448	4,506	34,941	39,447	15,529
1964.	4,279	2,632	5,939	4,491	39,966	44,457	17,341

1/ DATA NOT AVAILABLE.

NOTE:--ALL WEIGHTS ARE ON A HEADS-ON BASIS. PRIOR TO 1942, IT WAS THE PRACTICE OF THE BUREAU TO CREDIT THE ENTIRE CATCH OF A VESSEL TO THE PRINCIPAL PORT WHERE IT WAS UNLOADED, REGARDLESS OF THE ACTUAL POINT OF LANDINGS. BECAUSE OF THIS POLICY, A PORTION OF THE SOUTH ATLANTIC SHRIMP CATCH IN CERTAIN YEARS WAS CREDITED TO NEW YORK AND NEW JERSEY.

SOUTH ATLANTIC SHRIMP CATCH, 1953 AND 1964



SHRIMP LANDINGS, GULF STATES, VARIOUS YEARS, 1880-1964

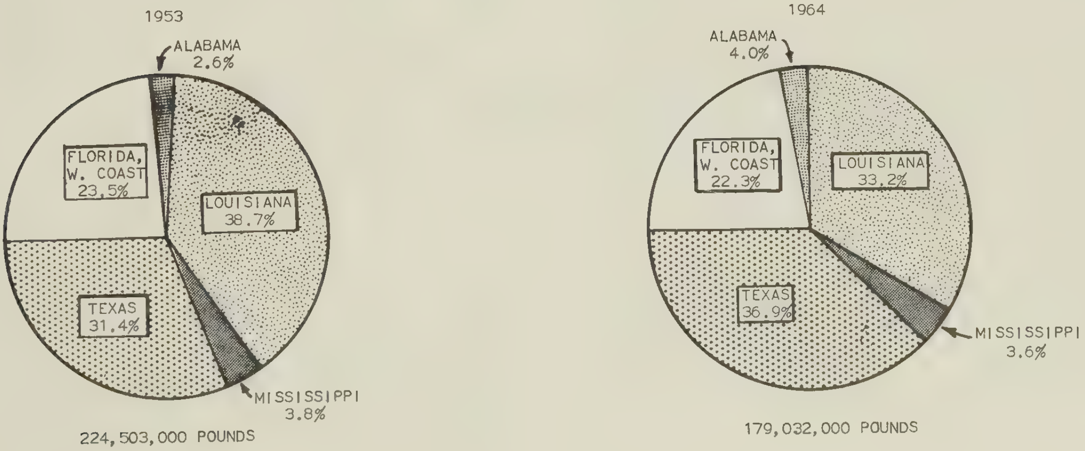
(THOUSANDS OF POUNDS)

YEAR	FLORIDA, WEST COAST	ALABAMA	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1880.	1,172	(1)	(1)	534	638	(1)
1887.	(1)	(1)	1,145	6,810	255	(1)
1888.	(1)	44	1,093	6,943	259	(1)
1889.	-	30	794	7,238	242	8,304
1890.	-	-	614	6,662	176	7,452
1897.	-	41	1,903	4,487	361	6,792
1902.	17	(2)	4,424	7,635	291	12,367
1908.	7	37	4,121	8,581	118	12,864
1918.	3,250	1,266	9,147	18,520	164	32,347
1923.	2,881	3,182	9,879	27,753	3,422	47,117
1927.	2,390	5,162	9,234	40,259	11,832	68,877
1928.	2,877	5,972	11,768	53,779	7,774	82,170
1929.	1,353	4,396	13,102	49,456	9,415	77,722
1930.	1,589	2,982	8,489	38,664	10,189	61,913
1931.	1,803	2,475	17,716	35,148	13,814	70,956
1932.	1,068	3,382	14,010	38,096	9,244	65,800
1934.	1,539	4,557	15,330	55,572	16,359	93,357
1936.	1,789	1,869	17,493	53,430	9,962	84,543
1937.	1,490	3,104	23,558	68,781	16,905	113,838
1938.	1,296	3,644	9,902	81,379	16,365	112,586
1939.	800	2,124	5,676	100,612	11,173	120,385
1940.	942	4,565	8,566	98,986	14,779	127,838
1945.	1,783	4,439	6,595	116,904	15,722	145,443
1948.	(1)	2,939	4,204	88,249	22,416	(1)
1949.	1,634	2,664	2,841	85,707	33,668	126,514
1950.	13,639	5,007	9,460	77,835	45,812	151,753
1951.	29,756	6,356	7,475	85,718	64,346	193,651
1952.	37,130	6,208	6,800	83,104	65,026	198,268
1953.	52,804	5,806	8,517	86,941	70,435	224,503
1954.	45,800	6,226	8,261	83,608	93,258	237,153
1955.	48,598	6,676	13,617	71,994	71,517	212,402
1956.	49,115	7,668	10,912	60,792	65,134	193,621
1957.	41,921	6,035	9,569	34,103	76,825	168,453
1958.	45,606	5,308	6,476	41,008	74,956	173,354
1959.	32,252	8,018	11,319	57,353	84,561	193,503
1960.	44,464	7,169	11,031	61,758	81,303	205,725
1961.	36,069	3,525	4,408	31,027	58,766	133,795
1962.	32,146	3,748	6,104	43,585	56,143	141,726
1963.	34,941	7,760	9,375	80,809	70,231	203,116
1964.	39,966	7,215	6,416	59,382	66,053	179,032

1/ DATA NOT AVAILABLE.
2/ LESS THAN 500 POUNDS.

NOTE:--ALL WEIGHTS ARE ON A HEADS-ON BASIS. DURING THE YEARS 1938 TO 1953, INCLUSIVE, THE CATCH TAKEN BY MISSISSIPPI CRAFT IN LOUISIANA WATERS WAS INCLUDED WITH LOUISIANA DATA; IN ALL OTHER YEARS IT WAS INCLUDED WITH MISSISSIPPI DATA.

GULF SHRIMP CATCH, 1953 AND 1964



224,503,000 POUNDS

179,032,000 POUNDS

SHRIMP LANDINGS, PACIFIC COAST STATES, VARIOUS YEARS, 1888-1964

(THOUSANDS OF POUNDS)

YEAR	ALASKA 1/	WASHINGTON	OREGON	CALIFORNIA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1888	-	5	-	4,902	4,907
1892	-	2	-	5,313	5,315
1895	-	36	-	5,425	5,461
1899	-	20	-	6,495	6,515
1904	-	430	-	2,576	3,006
1908	-	247	-	258	505
1915	(2)	386	-	298	(2)
1916	164	(2)	-	(2)	(2)
1917	114	(2)	-	(2)	(2)
1918	361	(2)	-	722	(2)
1919	375	(2)	-	813	(2)
1920	700	(2)	-	818	(2)
1921	2,156	(2)	-	910	(2)
1922	2,102	62	-	990	3,154
1923	2,878	35	-	1,113	4,026
1924	3,303	38	-	1,551	4,892
1925	3,247	36	-	1,460	4,743
1926	3,064	51	-	1,432	4,547
1927	3,074	39	-	1,697	4,810
1928	3,152	36	-	2,281	5,469
1929	3,111	50	-	3,055	6,216
1930	3,198	88	-	2,697	5,983
1931	2,863	68	-	1,689	4,620
1932	1,876	46	-	2,683	4,605
1933	1,985	53	-	2,088	4,126
1934	2,367	60	-	1,784	4,211
1935	2,355	124	-	3,448	5,927
1936	2,967	101	-	2,243	5,311
1937	2,886	47	-	1,111	4,044
1938	2,721	25	-	1,847	4,593
1939	2,735	61	-	1,180	3,976
1940	3,164	55	-	1,083	4,302
1941	2,770	27	-	958	3,755
1942	1,896	12	-	801	2,709
1943	713	54	-	253	1,020
1944	879	24	-	292	1,195
1945	1,344	44	-	383	1,771
1946	2,168	131	-	437	2,736
1947	2,080	44	-	843	2,967
1948	3,021	42	-	931	3,994
1949	3,148	67	-	805	4,020
1950	2,980	55	-	919	3,954
1951	2,580	108	-	934	3,622
1952	2,942	17	-	1,118	4,077
1953	2,881	15	26	1,022	3,944
1954	2,635	21	-	1,044	3,700
1955	3,272	8	23	1,522	4,825
1956	3,428	77	6	1,889	5,400
1957	4,114	2,457	403	1,571	8,545
1958	7,862	6,730	1,523	1,776	17,891
1959	13,052	3,046	2,734	1,820	20,652
1960	7,436	1,805	1,149	2,028	12,418
1961	15,980	1,463	1,464	2,005	20,912
1962	16,943	1,399	2,777	1,787	22,906
1963	15,127	1,002	3,028	2,103	21,260
1964	7,727	384	5,280	1,106	14,497

1/ REVISED. DATA FOR THE YEARS 1916-57 WERE DETERMINED FROM THE QUANTITY OF SHRIMP PRODUCTS PREPARED FOR MARKET BY MULTIPLYING THE WEIGHT OF DRIED SHRIMP BY 14.00, COOKED MEATS BY 6.25, RAW MEATS BY 3.57, AND HEADS-OFF SHRIMP BY 1.75. BEGINNING WITH 1958 THE CATCH WAS REPORTED IN ROUND (LIVE) WEIGHT.

2/ DATA NOT AVAILABLE.

SECTION 14

STATISTICAL SURVEY PROCEDURE

This is another in a series of annual reports containing detailed statistics, analytic textual reviews, and graphic presentations on the commercial fisheries of the United States. Included are data on the quantity and value of the commercial yield of fishery products by States, sections, and gear; and the number of persons and operating units engaged in the fisheries. In the Great Lakes and Mississippi River Sections, the catch is also tabulated by water bodies. The publication contains data on the volume and value of processed fishery products, freezings and cold storage holdings, foreign trade, and other related information. The report has been prepared and published by the Bureau of Commercial Fisheries, Fish and Wildlife Service, U. S. Department of the Interior, and is a continuation of a series inaugurated by its predecessor organizations in the Department of Interior, Commerce, Commerce and Labor, and the U. S. Fish Commission.

In order that those who use the statistical data contained in this and previous reports may be informed as to the source of the figures and methods for their collection, it has been deemed advisable to outline, in moderate detail, the survey procedure followed. This procedure has been developed over many years, and changes in methods have been made at times when such changes have appeared to work toward general improvement. While the surveys in different sections are not made in the same manner, owing to varying facilities and records, an attempt has been made to make the data collected by various methods comparable with respect to the same year as well as over a period of years. Throughout the entire plan, it has been the intention to coordinate State and federal fishery statistical work so that there will be as little duplication of effort as possible.

SECTIONAL SURVEYS

Statistical surveys of the fisheries and fishery industries of the various sections of the United States occupy by far the greatest part of the time of the personnel of the Branch of Statistics. At frequent intervals, field representatives visit the individual fishing localities of the various States to collect statistics on the volume and value of the catch of fish and shellfish, employment in the fisheries, quantity of fishing gear, number and classification of fishing craft, and the volume and value of processed fishery products. The various phases of these surveys are discussed in detail in the sections following.

History--The first comprehensive statistical study of the fisheries and fishery industries of the United States was made for the year 1880 by George Brown Goode, Assistant Director of the U. S. National Museum, and associates, with the cooperation of the Commissioner of Fisheries and the Superintendent of the Tenth Census. Data for specific fisheries, or restricted sections for years prior to 1880, also were collected in the early survey and recorded in Mr. Goode's reports. The survey for 1880, however, did not include the Mississippi River and its tributaries. Periodic general surveys of a limited number of States or limited areas of the United States were made for the years from 1880 to 1907 and from 1909 to 1928. The first complete statistical canvass of the entire United States was made for 1908 by the Bureau of the Census. The next general survey of the entire United States was not made until 1931, although complete data for all sections, excluding the Mississippi River and its tributaries, were collected for 1929 and 1930. Complete data on the catch and operating units for these same sections were also collected for 1932. In the latter survey, however, lack of sufficient funds prohibited collection of data on the wholesale and manufacturing operations except those data collected as a part of the canned fishery products and byproducts survey. Various sections were surveyed during the years from 1933 to 1949, inclusive. A complete survey of all sections of the country was made for 1950. Since 1951, all of the coastal areas have been canvassed annually, and catch records have been obtained for the Lakes section. Complete operating unit and catch data have been obtained for all areas since 1954, except that only a partial survey of the Mississippi River and its tributaries was made for 1961. Data on the wholesale and manufacturing industries were collected in all of the surveys from 1933 to 1940, inclusive. In the years from 1941 to 1949, inclusive, and in 1951, lack of experienced personnel and budgetary limitations precluded the collection of data on wholesale and manufacturing firms except for those data collected as part of the canned fishery products, industrial products, and packaged fish surveys.

STATISTICAL SURVEY PROCEDURE

The chart on page 503 indicates the years for which surveys have been made in the various sections. Figures for recent years are available from the Bureau in bulletin form, but data for the earlier years are available only in the Fish Commission and Bureau of Fisheries printed reports. These reports are on file in the Department of the Interior library and in many public libraries.

Since the surveys of the fisheries have varied in completeness, three legends have been used for the years shown in the chart to indicate whether complete, partial, or no surveys were conducted in the individual regions. The designation "complete survey" has been used to indicate that basic operating unit and catch data were obtained and that complete information was collected on employment in wholesale and manufacturing establishments and on the production of manufactured fishery products. The legend "partial survey" usually indicates that operating unit and catch statistics were collected, but that no information was obtained on employment in wholesale and manufacturing establishments and that only partial data were obtained on the production of manufactured fishery products. In some instances the designation "partial survey" is used for regions in which only catch statistics were collected. The legend "no survey" indicates that a general canvass was not conducted to obtain operating unit, catch, employment in wholesale and manufacturing plants, and complete manufactured products data. Although the chart indicates that in certain regions no surveys were conducted, some information may be available on the landings at certain important ports. Likewise, information on the catch of certain species, such as menhaden, may be available as a result of data collected in connection with the annual canned fish and byproducts survey. Data on the annual production of canned fishery products and byproducts have been collected for all regions since 1921, while information has been obtained on the production of packaged fish for 1926 and annually since 1928.

A bibliography listing the various surveys made since 1880 and the publications in which the results were published appeared in Statistical Digest No. 43, "Fishery Statistics of the United States, 1956." A list of the statistical bulletins in the Current Fishery Statistics series published during 1964 may be found in Section 17 of this Digest.

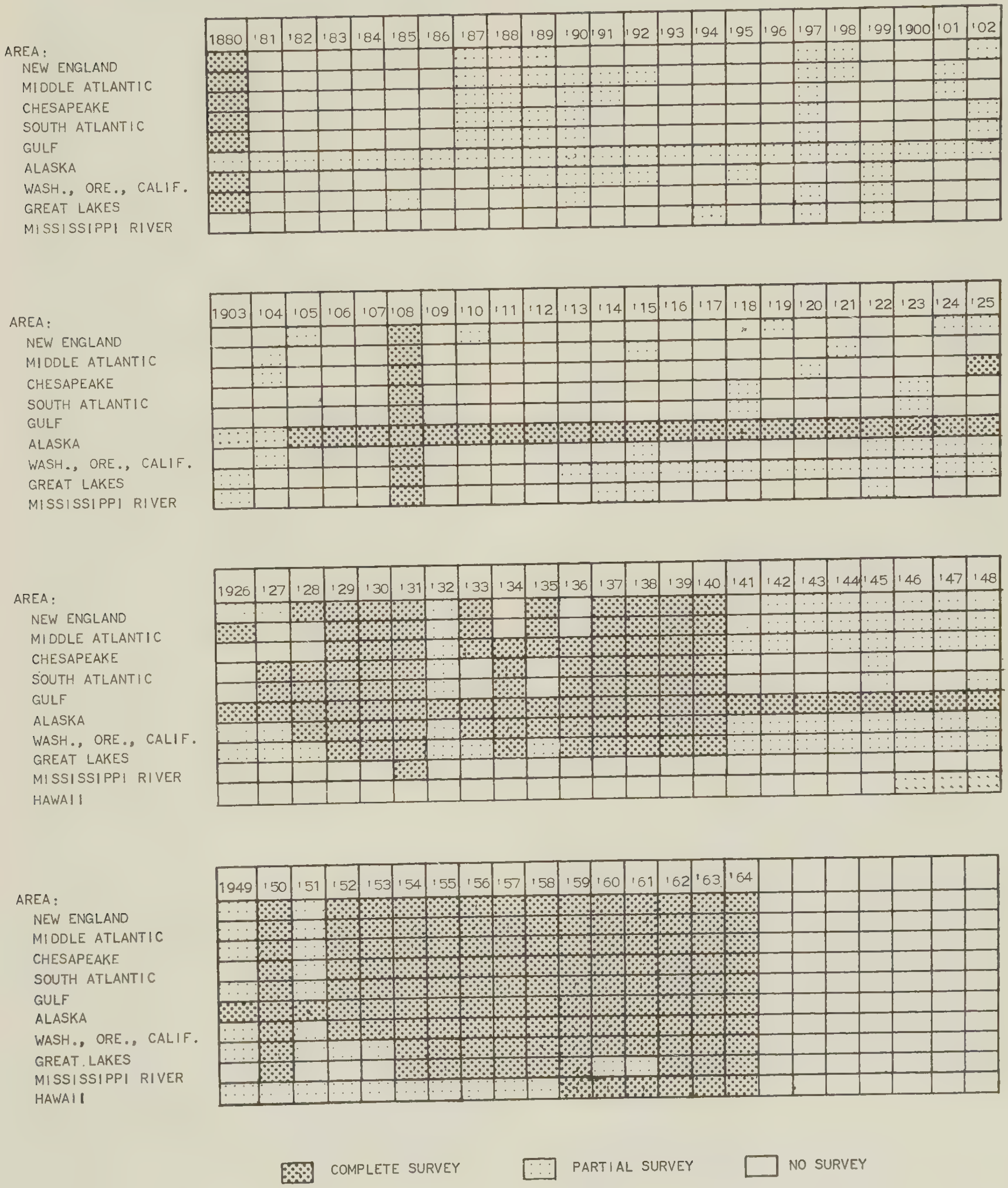
Field Personnel--The statistics contained in this volume have been collected by a group of trained fishery reporting specialists of the Bureau.

Period Covered--These specialists are assigned to field stations, generally in the principal port within their field, and travel from that station in conducting their various surveys. Most of the reporting agents collect statistics on landings for the current year, and assemble final operating unit, catch, and processed products data for the previous year. It is usually 3 to 10 months after the end of the calendar year for which they are collecting data before the final figures for the digest are available. The data are tabulated and prepared for publication before the end of the year. The figures are collected and published on a calendar year basis. Prior to 1930, statistics on the catch of oysters in the Atlantic and Gulf States were collected for the oyster season; that is, from September to April, inclusive. Since 1930, they have been collected on a calendar year basis.

Scope--The coastal statistical surveys include canvasses of the commercial fisheries of the oceans, bays, and coastal rivers as far inland as commercial fishing is important. This usually coincides with the range of commercial fishing for anadromous species. Statistics on the fisheries of the Mississippi River include those of the Mississippi River proper as well as all of its tributaries wherein commercial fishing for either fish, crustaceans, or mollusks is carried on. Statistics on the fisheries of the Great Lakes cover canvasses of the fisheries in the lakes proper, adjacent bays, the International Lakes of northern Minnesota, and rivers which sustain a commercial fishery having outlets into these waters. Statistics on the fisheries of Florida include the commercial fisheries in Lake Okeechobee and other inland lakes. Surveys for statistics of the wholesale and processing fishery industries cover plants located in the coastal, river, and lake areas adjacent to the waters mentioned above.

Methods of Collection--There are several methods used in the collection of fishery statistics, each of which has been carefully

SURVEYS OF THE FISHERIES OF THE UNITED STATES



studied to obtain the best results with available personnel and funds. In the preparation of operating unit data, the field personnel are supplied with a deck of prepunched vessel cards obtained from the Bureau of Customs. These cards indicate the name, official number, rig code, gross tonnage, length, and year built. Field personnel enter the number of crewmen, and number and type of gear used by the vessel. These data are obtained by interview. Data on the craft of less than 5 net tons are obtained from State conservation agencies and by contact with firms purchasing fish or shellfish from fishermen. The data thus obtained are machine processed to ensure accuracy.

Data on over 96 percent of the catch are available from summaries of monthly landings bulletins and other current records assembled by the Bureau or the various States. If complete catch data are not available from central sources, wholesale dealers and manufacturers of fishery products are visited, and data are obtained from them on their purchases of fish and shellfish. It is impossible for the few Bureau representatives available for this work to interview each fisherman in a given locality. However, the more important areas and a sufficient number of areas of lesser importance are visited to obtain reliable information on production, the number of fishing craft engaged, the quantity of gear operated, catch by gear and waters, and the number of persons employed as fishermen.

The Bureau's role with regard to fishery statistics is principally that of coordinating the collection of information, assembling, analyzing, publishing, and disseminating fishery data. The collection of basic operating unit and catch statistics is primarily a State function. The State fishery agencies in a number of States have developed relatively complete statistical systems which greatly facilitate the Bureau's surveys in these States. In such instances, the Bureau conducts only such surveys as may be necessary to make the data comparable with those of other States.

The Bureau obtains from the records of the State fishery agencies most of the catch statistics for the fisheries of the Great Lakes, the northern Mississippi River area, and the International Lakes of northern Minnesota. To obtain data on the number of fishermen, boats, vessels, and gear, the Bureau conducts such personal surveys among the fishermen as may be necessary to supplement the State records.

Bureau statistical personnel are stationed at Seattle, Wash. and San Pedro, Calif. for the purpose of surveying the fisheries of Washington, Oregon, and California. They obtain from the records of the State fishery departments figures on the volume of the catch and operating units. The value of the catch is derived from State and dealers' records. In Washington and Oregon, data for operating units in the offshore fisheries are obtained from the records of various fishery organizations as well as from records of the State fishery agencies. Statistics of the wholesale fishery industry for this section are obtained largely by personal interviews.

In many States, the Bureau and the fishery agency of the respective States cooperate in the collection and publication of current monthly and annual data on the catch. These data form the basis of the annual catch figures published in this report for the following States: Maine, Massachusetts, Rhode Island, New York, New Jersey, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, Texas, California, Ohio, Michigan, and Wisconsin.

In the administration of the Alaska fisheries, the State requires that copies of all receipts for fish and shellfish purchases from fishermen be furnished to the Alaska Department of Fish and Game. The data on these tickets are compiled and made available to the Bureau. The summary data, by districts, are reproduced in this report.

Statistics on the volume of the catch of fish in the Great Lakes States usually are shown in weights as landed, which may be in the round or drawn condition. Statistics on the volume of the catch of fish taken in the remainder of the United States are usually shown in round weight.

The figures in the tables for shellfish represent the weight of the meats in the cases of univalve and bivalve mollusks, and the round weight of crustaceans and such cephalopods as squid and octopus.

Shore and Vessel Fisheries--In general, statistics of the shore fisheries, as collected by the Bureau's representatives, include data on the number of casual and regular fishermen; number of motor and other fishing boats (craft of less than 5 net tons capacity are called "boats"); type and quantity of gear used; and the volume, value, and method of capture of each species for each locality or group of localities. This method is not followed in some sections where the availability of data collected by the State fishery agencies obviates the necessity of detailed locality surveys.

Statistics of the vessel fisheries include data on the number in the crew; rig of vessels; gross tonnage; kind and quantity of gear used; and volume, value, and method of capture of each species. Craft having a capacity of 5 net tons or over are called "vessels." As in the shore fisheries, the availability of figures collected by State fishery agencies may eliminate the necessity of Bureau agents collecting these data for individual vessels. Information on the year vessels were built was assembled for 1961.

Statistics on the quantity of gear operated indicate the maximum number of units fished at any one time during the year. Gear carried in reserve for replacement is not reported.

All persons engaged in commercial fishing operations are included as fishermen. In most areas, fishermen not on vessels have been divided into "regular" and "casual" Regular fishermen are defined as those who receive more than one-half their annual income from fishing, whereas casual fishermen are those who receive less than one-half their annual compensation from fishing. It has not been possible to separate regular from casual fishermen on the Pacific Coast.

Since 1942, the catch of fish and shellfish has been credited to the port at which it was landed. Prior to the survey for that year, it was the practice of the Bureau to credit the entire catch of a vessel to the principal port at which fish or shellfish were unloaded, regardless of the actual point of landing. This policy was discontinued since it quite often resulted in inconsistencies by crediting catches of some species to areas far removed from localities in which they are commonly taken. An outstanding example of this is the southern trawl fishery conducted off the New Jersey, Maryland, Virginia, and North Carolina coasts. Some fishing vessels from New England operate in this fishery for 6 to 10 weeks during the winter season. Prior to the survey for 1942, the catch of these vessels, consisting principally of fish common to Middle Atlantic waters, was credited to Massachusetts. Under the present system, this catch is credited to the Middle Atlantic ports where it is landed.

Since 1949 on the Pacific Coast and 1951 for the remainder of the country, craft, fishermen, and gear have been reported for each State in which they fished. A total exclusive of duplication is shown for each section and for the United States as a whole. Prior to the surveys for 1949, each craft on the Pacific Coast was credited to its home port unless it did not fish from that port during the year. In that case, it was credited to the locality where it landed the greatest portion of its catch. Prior to the survey for 1951, each craft on the Atlantic and Gulf Coasts and interior waters was credited to the port where it landed the greatest portion of its catch during the year. This system was changed to provide more accurate data on the total number of craft operating in a given State. With the increased mobility of the fishing fleet in recent years, the number of vessels fishing in more than one State has increased greatly.

Beginning with data for 1951, the reporting of units of gear was standardized so that nets or lines made up of small units for ease in handling, but fastened together in fishing, were counted as a single unit rather than as a number of smaller units. Prior to 1951, the small units were sometimes counted as individual pieces of gear even though they were combined for fishing. This rule does not apply to halibut longlines or setlines on the Pacific Coast. In this fishery, each skate of gear is counted as one line, even though fastened together in fishing, because the International Pacific Halibut Commission uses a skate of gear as a unit in its studies of fishing intensity.

Beginning with 1962, only summary data have been shown on the number of fishing gear operated in the Great Lakes and the International Lakes of northern Minnesota. These data appear in the General Review section of the Digest in the table "Summary of Operating Units." In detailed operating unit tables for these lakes, the number and size of gear have been replaced by information on the fishing effort expended in the operation of each gear.

Publication of Data--Statistics on employment in the fisheries, craft and gear engaged, quantity and value of catch, and certain data on industries related to the fisheries are summarized according to geographic divisions and published in bulletin form as soon as possible after the completion of each survey. Later, the figures, in more detail, are included in the annual statistical report of the Bureau entitled "Fishery Statistics of the United States."

Data on the operating units (fishermen, fishing craft, and gear) and catch by counties for the Atlantic and Gulf States have been included in these annual statistical reports for the years from 1928 to 1938 except for 1932. These data have also been published in the digests for the years 1945, 1950, 1955, and 1960. County data were collected for the State in which surveys were conducted during the years since 1938, except for Maryland. Between 1942 and 1959, only operating unit data by counties have been obtained for Maryland. Complete data were obtained for 1960. County data assembled for the years since 1938, which were not published in the Digest, are on file in the Washington office of the Bureau.

LOCAL AND SPECIAL SURVEYS

Landings at Certain Massachusetts Ports--Detailed statistics are collected on the landings of aquatic products by individual fishing craft at Boston, Gloucester, New Bedford, Plymouth, Provincetown, and other Cape Cod ports. Bureau representatives are stationed at the principal ports. They obtain figures on the quantity and value of fish landed daily by fishing craft, the dates of departure and arrival of the craft, the gear used in their capture, the grounds from which the fish were taken, and other related information. The Bureau's Division of of Biological Research and Branch of Market News cooperate in the collection of these data.

Statistics on landings at the above ports are released monthly and annually in bulletin form, and summary data are published in the annual statistical digest. Products of American fisheries received duty free at Boston and Gloucester from the treaty coasts of Newfoundland, Magdalen Islands, and Labrador have not been included in the landings at these ports since 1938. Data on the landings at Boston and Gloucester have been collected annually since 1893. Information on landings at New Bedford has been collected annually since 1938; and at Plymouth, Provincetown, and other Cape Cod ports, since 1945.

Shad and Alewife Fisheries--Owing to the importance of the Hudson and Potomac Rivers in the production of shad, surveys for statistics on the catch, value of the catch, and operating units are made annually. On the Potomac River, similar statistics are also obtained for the alewife fishery. Much of the data required for these surveys is available from the States fishery agencies.

Annual data on the shad and alewife fisheries are not published separately in bulletin form. However, a summary is published in the annual statistical digest.

Statistics on the Hudson River shad fishery are available for 1896, 1897, 1898, 1901, 1904, 1910, and continuously since 1915. Data for the Potomac River shad fishery are available for 1896, 1901, 1904, 1909, 1915, from 1919 to 1942, inclusive, and continuously since 1944. Statistics on the Potomac River alewife fishery are available for 1896, 1909, 1915, from 1919 to 1942, inclusive, and continuously since 1944.

Pacific Halibut Fishery--Statistics on the Pacific halibut fishery are obtained primarily from the International Pacific Halibut Commission. Beginning with data for 1956, the fleet classification of halibut craft was revised and vessels were credited in operating unit tables to each district in which they landed fish; the only exception being that U.S. vessels landing at Prince Rupert, British Columbia, are credited to Southeastern Alaska. Duplication of halibut craft which operated in more than one district has been eliminated in regional and national totals. The catch by the halibut fleet is credited to the port of landing except that fish landed by U.S. halibut craft in British Columbia is credited to Southeastern Alaska. Halibut statistics are also included in the monthly and annual summaries published by the Seattle Fishery Market News Office. Statistics on the landings of halibut at Pacific Coast ports have been collected since 1925.

South Atlantic and Gulf of Mexico Shrimp Fishery--Detailed statistics on the quantity and value of shrimp, by variety and size, landed at South Atlantic and Gulf ports, have been collected for the Gulf area since 1956 and the South Atlantic since 1957. Since 1956, Bureau personnel have also obtained daily information on the number of fishing trips, area and depth fished, and time spent in fishing by craft landing at U.S. ports in the Gulf of Mexico. The Branch of Market News, the Bureau's Branch of Marine Fisheries of the Division of Biological Research, and various fishery agencies of the southern States cooperate in the collection of these data.

Detailed monthly and annual summaries of the statistics on shrimp catch and landings are published in bulletin form and are summarized in the annual statistical digests.

Hawaiian Fisheries-- The common and scientific names of the species of fish and shellfish landed in Hawaii are not included in Section 15 of this report.

Historical Fishery Statistics-- The Bureau of Commercial Fisheries has in its files and in various Bureau reports or publications of other organizations a large volume of historical data on fisheries. Beginning with the 1951 Digest, a section entitled "Historical Fishery Statistics," which includes complete historical information on selected species, has been carried. There is published each year a listing of the titles of the series of data appearing in earlier editions.

Review of Certain Major Fisheries--Beginning with 1942, tabulations containing complete data on the catch of certain major species have been included in a section of the Digest entitled "Review of Certain Major Fisheries." Although the data are included in the detailed catch tables of the various States, they are consolidated in this section to provide a single source of data for cod, haddock, halibut, Pacific mackerel, jack mackerel, menhaden Atlantic ocean perch, salmon, tuna, oysters, clams, crabs, and shrimp. Data on operating units in the following fisheries have likewise been consolidated in this section: halibut, salmon purse seine and troll line, Atlantic and Pacific Coast tuna, menhaden purse seine, fish and shrimp otter trawl.

Canned Fishery Products and Industrial Products--Since 1921, the Bureau has made annual sectional surveys for statistics on canned and industrial fishery products. These surveys are started the first week in January of each year for statistics on the production in the preceding year. So far as possible, the Bureau obtains by mail statistics on the annual production of each domestic canned and industrial fishery products plant. If it is impossible to obtain the information by mail, the report is secured by a Bureau representative. Included in the data obtained are statistics on the yield and value of the canned products by type of commodity, can size, and area of production. Data on industrial products are obtained by commodity and area of production. The value shown for canned and industrial products is the gross amount received by the packer at the production point. No deductions are made for commissions or expenses.

Annual statistical bulletins are issued on this trade, and detailed data are published in the statistical Digest. Prior to 1921, canned and industrial products data were not collected for the entire country. However, data on the production of these products were usually obtained for the areas in which general canvass surveys were conducted.

Fish Meal and Oil--Data are collected monthly on the domestic production of fish meal, body oil, fish solubles, and homogenized condensed fish. This information is released monthly and annually in the Bureau's Current Fishery Statistics series of bulletins.

Packaged Fish Trade--Statistics on the annual production and value of fish packaged in the United States, excluding the States of Alaska and Hawaii, are obtained in conjunction with the canned and industrial fishery products survey. These data are released annually in bulletin form and in the annual statistical digest. Statistics on the production of packaged fish are available for 1926 and annually since 1928, except that no data were collected in California for the years 1941 to 1946, inclusive.

Fish Sticks and Portions--Quarterly information is collected and published on the production and value of cooked and raw fish sticks and breaded, cooked, and raw fish portions, and unbreaded fish portions. The data are released in the Bureau's Current Fishery Statistics series of bulletins.

Cold-Storage Holdings of Fish--Information on the monthly freezings and holdings of fishery products is obtained from cold storage warehouses by mail and by Bureau employees. Data are also obtained on the holdings of certain cured fish Bulletins showing these statistics are issued monthly and annually.

Detailed cold-storage statistics also are published in the Bureau's annual statistical digest. Information regarding cold-storage holdings of fishery products has been published since 1917, while data on the quantity of fish frozen have been released for the years from 1920 to 1925, inclusive, and continuously since 1928.

Foreign Fishery Trade--Statistics on foreign fishery trade are obtained from compilations made by the Bureau of the Census, Department of Commerce. Statistics on all known imported or exported fishery products have been assembled and published annually since 1926 in the Bureau's statistical digest. For earlier years, figures are available in the reports of the Bureau of the Census, Bureau of Foreign and Domestic Commerce, the Bureau of Statistics, the Department of Commerce and Labor, or the Treasury Department.

PRACTICES AND TERMS

Certain practices and terms used in this report are explained below.

Operating Units--Operating units include persons employed in the fisheries, and craft and gear engaged in the fisheries.

Vessel--A craft having a capacity of 5 net tons or over.

Boat--A craft having a capacity of less than 5 net tons.

Days Absent--In computing "days absent" for vessels landing fares at certain Massachusetts ports, the day of arrival, but not the day of departure, is included; thus, a vessel leaving port on the 8th of the month and returning on the 15th of the month will be credited with 7 days absence. Prior to 1944, "days absent" included both the day of departure and the day of arrival.

Days Fished--In computing "days fished" for fishing craft landing shrimp at Gulf of Mexico ports, the total number of hours spent in fishing effort has been divided by 24.

Fish--The term "fish" as used in this report includes all species belonging to the class Pisces.

Shellfish, etc.--A shellfish is an aquatic invertebrate animal having a shell, such as a mollusk or crustacean. However, in order to reduce the classifications appearing in the catch tables, all items not properly listed as "Fish" or "Whale Products" have been included under "Shellfish, etc." Accordingly, turtles, frogs, sponges, seaweed, and worms are included under this classification.

Whale Products--Since data are not available on the poundage of whales taken, statistics appearing in catch tables on the yield of these mammals represent the weight of products produced such as meal, sperm oil, whale oil, etc. The values shown represent the amount received by the manufacturer for the products.

Incidental Catch--The term "incidental catch" refers to the catch of certain species by a type of gear which ordinarily does not capture such species.

Percentages--Percentages are usually shown as whole numbers. Fractions of percents are dropped if less than five-tenths, and the percentage is raised to the next higher integer if the fraction is greater than five-tenths. If the fraction is exactly five-tenths, odd integers are raised to the next even figure while even integers remain unchanged.

Converting--Many of the figures shown in the summary tables published herewith have been converted to thousands of pounds or thousands of dollars. In making these conversions the sum of the items in a table is raised or low-

STATISTICAL SURVEY PROCEDURE

ered to the nearest thousand in accordance with standard statistical procedures. The individual items are adjusted to conform to the total thus obtained.

Confidential Data--The statistical data collected by the Bureau are confidential, and unless specific authorization is given, are not released in a manner that would divulge private enterprise.

CONVERSION FACTORS

It is the policy of the Bureau to show detailed catch figures of all products in pounds for the sake of uniformity and for purposes of comparison. This represents little difficulty in the case of fish, since in very rare instances are fish reported in units of measure other than pounds. For shellfish, however, the units of measure may be bushels, sacks, barrels, numbers, gallons of meats, etc. So many units make standardization difficult, and when combined with the wide variation in the requirements or definitions of some of these units in the various states, the problem becomes even more complex.

All univalve and bivalve mollusks (except fresh-water mussel shells) are reported in pounds of meats in the detailed catch tables presented in this report. In addition, there are included supplementary tables for most of the sections, which give data on the production in bushels. These supplementary tables also give the production in number of certain other shellfish, such as crabs. There also is included in the General Review section of this report a table containing data on the shell weight of univalve and bivalve mollusks taken.

Oysters--Probably the greatest problem in the presentation of fishery statistics in uniform units of measure is in the case of oysters. Usually the production of oysters on the Atlantic and Gulf Coasts is reported to Bureau personnel in bushels. Prior to the data obtained for the year 1930, bushels were converted to pounds of meats on the basis of a uniform yield of 7 pounds of meats to the bushel. However, it was found that there was considerable variation in the yield of oysters per bushel particularly in southern states where the yield has ranged as low as half the conversion factor used prior to 1930. There follows a table which gives the measures used for oysters in the various States and the average yields per bushel. The statistical tables in this report are based on these average yields.

COASTLINE OF THE UNITED STATES

Graphic measurements on lengths of coastline and tidal shoreline of the United States have been made from time to time by the U.S. Coast and Geodetic Survey on maps of various scales and in units of various lengths. The three types of measurement are explained in the following paragraphs.

GENERAL COASTLINE.--The figures under this heading are lengths of the general outline of the seacoast. The measurements were made with a unit measure of 30 minutes of latitude on charts as near the scale of 1:1,200,000 as possible. The shoreline of bays and sounds is included to a point where such waters narrow to the width of the unit measure, and the distance across at such point is included.

TIDAL SHORELINE, GENERAL.--Measurements under this heading were made with a unit measure of 3 statute miles on charts of 1:200,000 and 1:400,000 scale when available. The shoreline of bays, sounds, and other bodies of water is included to a point where such waters narrow to a width of 3 statute miles, and the distance across at such point is included.

TIDAL SHORELINE, DETAILED.--The figures under this heading were obtained in 1939-40 with a recording measure on the largest scale maps and charts then available. Shoreline of bays, sounds, and other bodies of water is included to the head of tidewater, or to a point where such waters narrow to a width of 100 feet.

LENGTH OF COASTLINE

LOCALITY	LENGTHS IN STATUTE MILES		
	GENERAL COASTLINE	TIDAL SHORELINE, GENERAL	TIDAL SHORELINE, DETAILED
NEW ENGLAND:			
MAINE	228	676	3,478
NEW HAMPSHIRE . . .	13	14	131
MASSACHUSETTS . . .	192	453	1,519
RHODE ISLAND. . . .	40	156	384
CONNECTICUT	-	96	618
TOTAL NEW ENGLAND	473	1,395	6,130
MIDDLE ATLANTIC:			
NEW YORK.	127	470	1,850
NEW JERSEY.	130	398	1,792
PENNSYLVANIA. . . .	-	-	89
DELAWARE.	28	79	381
TOTAL MIDDLE ATLANTIC. . . .	285	947	4,112
CHESAPEAKE:			
MARYLAND.	31	452	3,190
VIRGINIA.	112	567	3,315
TOTAL CHESAPEAKE	143	1,019	6,505
SOUTH ATLANTIC:			
NORTH CAROLINA. . .	301	1,030	3,375
SOUTH CAROLINA. . .	187	758	2,876
GEORGIA	100	603	2,344
FLORIDA, EAST COAST	580	618	3,331
TOTAL SOUTH ATLANTIC. . . .	1,168	3,009	11,926
TOTAL ATLANTIC COAST	2,069	6,370	28,673
GULF:			
FLORIDA, WEST COAST	770	1,658	5,095
ALABAMA	53	199	607
MISSISSIPPI	44	155	359
LOUISIANA	397	985	7,721
TEXAS	367	1,100	3,359
TOTAL GULF COAST	1,631	4,097	17,141
PACIFIC:			
ALASKA.	6,640	15,132	33,904
WASHINGTON.	157	908	3,026
OREGON.	296	312	1,410
CALIFORNIA.	840	1,190	3,427
TOTAL PACIFIC COAST.	7,933	17,542	41,767
HAWAII.	750	900	1,052
TOTAL UNITED STATES	12,383	28,909	88,633
U.S. TERRITORIES, POSSESSIONS, ETC.:			
BAKER ISLAND. . . .	3	3	3
CHRISTMAS ISLAND. .	80	90	188
GUAM ISLANDS. . . .	78	84	110
HOWLAND ISLAND. . .	4	4	4
JARVIS ISLAND . . .	5	5	5
JOHNSTON ISLAND . .	3	3	3
NAVASSA ISLAND. . .	5	5	5
PALMYRA ISLAND. . .	9	9	16
PANAMA CANAL ZONE .	20	20	126
PUERTO RICO	311	362	700
SAMOA ISLANDS . . .	76	91	126
SWAN ISLANDS. . . .	6	6	6
VIRGIN ISLANDS. . .	117	126	175
WAKE ISLAND	12	12	20

SOURCE:--U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

INLAND WATER AREAS BY STATES

Available information on the inland water surface area by States is listed below. These data include lakes, reservoirs and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth of a statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than 1 nautical mile of water; and islands having less than 40 acres of area; does not include water surface of the oceans, bays, the Gulf of Mexico, Long Island Sound, Puget Sound, and the Straits of Juan de Fuca and Georgia.

Most of the inland waters are fresh water. There is no specific criterion for distinguishing between fresh water and saline water. The saline lakes are mainly in the Great Basin (nearly all of Nevada, the western half of Utah, and parts of Oregon, California, Idaho, and Wyoming,) which has no outlet to the ocean. In addition much of the water near the coast may range from fresh to salty, depending upon the geography of the area and to fluctuations in the tide.

INLAND WATER AREA BY STATES AND SQUARE MILES

STATES	SQUARE MILES
COASTAL	
NEW ENGLAND:	
MAINE	2,203
NEW HAMPSHIRE	290
MASSACHUSETTS	390
RHODE ISLAND	156
CONNECTICUT	110
TOTAL NEW ENGLAND	3,149
MIDDLE ATLANTIC:	
NEW YORK:	
LAKES ONTARIO AND ERIE	3,627
OTHER	1,637
NEW JERSEY	315
PENNSYLVANIA:	
LAKE ERIE	735
OTHER	326
DELAWARE	79
TOTAL MIDDLE ATLANTIC	6,719
CHESAPEAKE:	
MARYLAND	703
DISTRICT OF COLUMBIA	8
VIRGINIA	977
TOTAL CHESAPEAKE	1,688
SOUTH ATLANTIC AND GULF:	
NORTH CAROLINA	3,645
SOUTH CAROLINA	783
GEORGIA	602
FLORIDA	4,308
ALABAMA	549
MISSISSIPPI	493
LOUISIANA	3,417
TEXAS	4,499
TOTAL SOUTH ATLANTIC AND GULF	18,296
PACIFIC:	
ALASKA	15,335
WASHINGTON	1,483
OREGON	733
CALIFORNIA	2,120
HAWAII	9
TOTAL PACIFIC	19,680
INLAND	
EAST NORTH CENTRAL:	
VERMONT	333
OHIO:	
LAKE ERIE	3,457
OTHER	250
INDIANA:	
LAKE MICHIGAN	228
OTHER	106
INLAND - CONTINUED	
EAST NORTH CENTRAL - CONTINUED:	
ILLINOIS:	
LAKE MICHIGAN	1,526
OTHER	470
MICHIGAN:	
LAKES SUPERIOR, MICHIGAN, HURON, AND ERIE	38,459
OTHER	1,313
WISCONSIN:	
LAKES MICHIGAN AND SUPERIOR	10,062
OTHER	1,449
TOTAL EAST NORTH CENTRAL	57,653
WEST NORTH CENTRAL:	
MINNESOTA:	
LAKE SUPERIOR	2,212
OTHER	4,059
IOWA	258
MISSOURI	548
NORTH DAKOTA	1,208
SOUTH DAKOTA	669
NEBRASKA	615
KANSAS	216
TOTAL WEST NORTH CENTRAL	9,785
EAST SOUTH CENTRAL:	
WEST VIRGINIA	102
KENTUCKY	532
TENNESSEE	482
TOTAL EAST SOUTH CENTRAL	1,116
WEST SOUTH CENTRAL:	
ARKANSAS	605
OKLAHOMA	1,032
TOTAL WEST SOUTH CENTRAL	1,637
MONTANA MOUNTAIN:	
MONTANA	1,402
IDAHO	849
WYOMING	503
COLORADO	363
NEW MEXICO	156
ARIZONA	334
UTAH	2,577
NEVADA	752
TOTAL MONTANA MOUNTAIN	6,936
TOTAL:	
GREAT LAKES	60,306
OTHER	66,353
GRAND TOTAL	126,659

SOURCE: U. S. DEPARTMENT OF COMMERCE, BUREAU OF CENSUS; STATISTICAL ABSTRACT OF THE UNITED STATES, 1964.

MEASURES AND YIELD OF OYSTERS

STATE	CAPACITY OF STATE BUSHEL	VARIATION FROM U.S. STANDARD BUSHEL		YIELD OF MARKET OYSTERS, 1964	
				STATE BUSHEL	U. S. STANDARD BUSHEL
	CUBIC INCHES	CUBIC INCHES	PERCENT	POUNDS OF MEATS	POUNDS OF MEATS
MAINE	2,150.4	-	-	10.05	10.05
MASSACHUSETTS	2,150.4	-	-	6.49	6.49
RHODE ISLAND	2,150.4	-	-	7.05	7.05
CONNECTICUT	2,150.4	-	-	7.71	7.71
NEW YORK	2,150.4	-	-	7.48	7.48
NEW JERSEY	2,257.3	+ 106.9	+ 5.0	7.46	7.10
DELAWARE	2,257.3	+ 106.9	+ 5.0	6.87	6.54
MARYLAND	2,800.7	+ 650.3	+ 30.2	6.13	4.71
VIRGINIA	3,003.9	+ 853.5	+ 39.7	6.02	4.31
NORTH CAROLINA	2,801.9	+ 651.5	+ 30.3	6.22	4.77
SOUTH CAROLINA	4,071.5	+ 1,921.1	+ 89.3	5.34	2.82
GEORGIA	5,343.9	+ 3,193.5	+ 148.5	7.90	3.18
FLORIDA, EAST COAST	3,214.1	+ 1,063.7	+ 49.5	5.89	3.94
FLORIDA, WEST COAST	3,214.1	+ 1,063.7	+ 49.5	5.59	3.74
ALABAMA	2,826.2	+ 675.8	+ 31.4	5.55	4.22
MISSISSIPPI	2,826.2	+ 675.8	+ 31.4	5.31	4.04
LOUISIANA	2,148.4	- 2.0	- 0.1	4.74	4.74
TEXAS	2,700.0	+ 549.6	+ 25.6	5.60	4.46

AVERAGE YIELDS OF CERTAIN MOLLUSKS, 1964

(POUNDS OF MEATS PER U.S. STANDARD BUSHEL)

STATE	CLAMS						CONCHS	MUSSELS, SEA	PERIWINKLES AND COCKLES	SCALLOPS	
	HARD		OCEAN QUAHOG	RAZOR	SOFT	SURF				BAY	SEA
	PUBLIC	PRIVATE									
MAINE	11.00	-	-	-	15.00	-	-	15.00	18.00	-	6.00
MASSACHUSETTS	11.00	11.00	-	16.00	13.00	11.00	15.00	10.00	-	6.00	6.00
RHODE ISLAND	12.00	-	10.00	-	13.00	-	15.00	10.00	-	6.00	6.00
CONNECTICUT	12.00	12.00	-	-	13.00	-	15.00	-	-	6.20	-
NEW YORK	12.00	12.00	-	16.00	16.00	17.00	15.00	10.00	-	6.00	6.00
NEW JERSEY	10.00	10.00	-	-	12.00	17.00	20.00	10.00	-	6.80	6.00
DELAWARE	8.00	8.00	-	-	-	-	-	-	-	-	-
MARYLAND	8.00	-	-	-	12.00	17.00	20.00	-	-	-	-
VIRGINIA	8.00	8.00	-	-	-	-	20.00	-	-	-	6.00
NORTH CAROLINA	8.75	-	-	-	-	-	-	-	-	6.00	-
SOUTH CAROLINA	8.75	-	-	-	-	-	-	-	-	-	-
FLORIDA, EAST COAST	8.00	-	-	-	-	-	-	-	-	-	-
FLORIDA, WEST COAST	8.50	-	-	-	-	-	14.00	-	-	5.39	-

AVERAGE NUMBER OF CRABS PER POUND, 1964

STATE	BLUE		GREEN	ROCK	STONE
	HARD	SOFT AND PEELER			
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
MAINE	-	-	-	3.00	-
NEW HAMPSHIRE	-	-	14.29	3.00	-
MASSACHUSETTS	-	-	14.29	3.00	-
RHODE ISLAND	-	-	13.79	3.00	-
CONNECTICUT	2.40	-	-	-	-
NEW JERSEY	2.40	4.82	-	2.80	-
DELAWARE	2.40	4.00	-	-	-
MARYLAND	2.40	4.00	-	-	-
VIRGINIA	2.99	5.99	-	-	-
NORTH CAROLINA	3.00	3.00	-	-	-
SOUTH CAROLINA	3.00	-	-	-	-
GEORGIA	2.00	-	-	-	-
FLORIDA, EAST COAST	2.00	4.00	-	1.00	-
FLORIDA, WEST COAST	2.07	3.51	-	-	1.00
ALABAMA	2.00	-	-	-	-
MISSISSIPPI	2.88	3.00	-	-	-
LOUISIANA	2.20	3.00	-	-	-
TEXAS	1.71	2.40	-	-	-

RECOVERY OF SHRIMP PRODUCTS AND FACTORS FOR CONVERTING THEM TO HEADS-ON WEIGHT

ITEM	SOUTH ATLANTIC AND GULF CATCH		PACIFIC AND NORTH ATLANTIC CATCH	
	PERCENT RECOVERY FROM HEADS-ON WEIGHT	TO CONVERT TO HEADS-ON WEIGHT, MULTIPLY BY:	PERCENT RECOVERY FROM HEADS-ON WEIGHT	TO CONVERT TO HEADS-ON WEIGHT, MULTIPLY BY:
HEADLESS:				
BROWN (PENAEUS AZTECUS)	62.1	1.61	-	-
PINK (PENAEUS DUORARUM)	62.5	1.60	-	-
WHITE (PENAEUS SETIFERUS)	64.9	1.54	-	-
ROYAL RED (HYMENOPENAEUS ROBUSTUS)	55.6	1.80	-	-
SEA BOBS (XIPHOPENAEUS KROYERI)	65.4	1.53	-	-
OTHER (MOSTLY PANDULUS SPECIES)	-	-	57.0	1.75
ALL SPECIES (WEIGHTED AVERAGE)	62.9	1.59	57.0	1.75
PEELED FANTAIL, RAW 1/	50.0	2.00	-	-
PEELED, RAW 1/	49.0	2.04	28.0	3.57
PEELED, COOKED 1/	31.9	3.13	-	-
BREADED, RAW (INCLUDING FANTAIL) 1/	100.0	1.00	-	-
DRIED 1/	13.0	7.69	-	-
CANNED 1/	31.2	3.21	16.0	6.25

1/ AVERAGE FOR ALL SPECIES.

NOTE:--EFFECTIVE IN 1962, THE CONVERSION FACTORS LISTED ABOVE BECAME THE BRANCH OF STATISTICS' FACTORS FOR CONVERTING VARIOUS SHRIMP PRODUCTS TO HEADS-ON (ROUND) WEIGHT.

RECOVERY OF PROCESSED SHRIMP PRODUCTS AND FACTORS FOR CONVERTING THEM TO WEIGHT OF RAW BASIC PRODUCT, SOUTH ATLANTIC AND GULF STATES

BASIC PRODUCT, RAW	PROCESSED PRODUCT						
	HEADLESS RAW	PEELED FANTAIL RAW	PEELED RAW	PEELED COOKED	BREADED RAW	CANNED	DRIED
HEADS-ON (ROUND)	62.9%	50.0%	49.0%	31.9%	100.0%	31.2%	13.0%
FACTOR	1.59	2.00	2.04	3.13	1.00	3.21	7.69
HEADLESS	100.0%	79.6%	77.9%	50.7%	159.0%	49.6%	20.7%
FACTOR	1.00	1.26	1.28	1.97	0.63	2.02	4.83
PEELED	-	-	100.0%	65.1%	204.1%	63.7%	26.5%
FACTOR	-	-	1.00	1.54	0.49	1.57	3.77

SEE NOTE BELOW FOLLOWING TABLE.

RECOVERY OF PROCESSED SHRIMP PRODUCTS AND FACTORS FOR CONVERTING THEM TO WEIGHT OF RAW BASIC PRODUCT, PACIFIC AND NORTH ATLANTIC STATES

BASIC PRODUCT, RAW	PROCESSED PRODUCT		
	HEADLESS RAW	PEELED RAW	CANNED
HEADS-ON (ROUND)	57.0%	28.0%	16.0%
FACTOR	1.75	3.57	6.25
HEADLESS	100.0%	49.1%	28.1%
FACTOR	1.00	2.04	3.56
PEELED	-	100.0%	57.1%
FACTOR	-	1.00	1.75

NOTE:--THE QUANTITY OF PROCESSED PRODUCT MULTIPLIED BY THE FACTOR LISTED YIELDS THE WEIGHT OF BASIC PRODUCT REQUIRED TO PRODUCE THE PROCESSED PRODUCT.

OTHER CONVERSION FACTORS

ITEM	WHEN REPORTED AS	TO CONVERT TO:	MULTIPLY BY
OYSTERS	GALLONS OF SHUCKED MEATS	POUNDS OF SHUCKED MEATS	8.75
CLAMS	"	"	8.75
SCALLOPS	"	"	8.75
OILS, FISH AND WHALE	GALLONS	POUNDS	7.75
CRAB MEAT:			
BLUE	POUNDS	LIVE WEIGHT	7.14
DUNGENESS	"	" "	4.17

FACTORS FOR CONVERTING IMPORT WEIGHT OF FISHERY PRODUCTS TO LIVE (ROUND) WEIGHT

ITEM	FACTOR
EDIBLE	
FRESH OR FROZEN:	
FISH:	
WHETHER OR NOT WHOLE (EXCEPT FILLETS, ETC.):	
FRESH-WATER:	
LAKE HERRING, CISCO, AND CHUB	1.06
LAKE TROUT	1.12
PIKE, EXCEPT YELLOW PIKE	1.12
SAUGER	1.00
TROUT (INCLUDING RAINBOW, BROOK, AND BROWN)	1.06
WHITEFISH	1.07
YELLOW PERCH	1.00
YELLOW PIKE	1.00
EELS	1.00
UNCLASSIFIED	1.02
SALT WATER:	
COD, ETC.	1.17
HALIBUT	1.33
MACKEREL	1.00
SALMON	1.18
SEA HERRING	1.00
SMELT	1.30
STURGEON	1.25
SWORDFISH	1.40
TUNA:	
ALBACORE:	
WHOLE	1.00
LOINS AND DISCS	2.25
OTHER	1.10
YELLOWFIN:	
WHOLE	1.00
GILLED AND GUTTED, HEADS-ON	1.11
GILLED AND GUTTED, HEADS-OFF	1.25
FILLETED	2.00
LOINS AND DISCS	2.25
OTHER	1.10
SKIPJACK:	
WHOLE	1.00
DRESSED	1.25
OTHER	1.10
OTHER, LOINS AND DISCS	2.25
UNCLASSIFIED	1.15
FILLETS, STEAKS, AND BLOCKS:	
BLOCKS	3.55
FILLETS AND STEAKS:	
GROUNDFISH:	
COD	3.08
HADDOCK, HAKE, POLLOCK, AND CUSK	2.85
OCEAN PERCH	3.33
FLOUNDER	2.82
HALIBUT	1.96
SWORDFISH	1.52
WOLFFISH	2.86
OTHER, SALT-WATER	2.86
YELLOW PERCH	2.27
YELLOW PIKE	2.22
OTHER, FRESH-WATER	2.27
FISH STICKS, ETC.	2.96
SHELLFISH:	
CRABS, FRESH OR FROZEN	1.50
CRAB MEAT	4.50
LOBSTERS:	
COMMON:	
WHOLE	1.00
MEAT	4.50
SPINY:	
TAILS	3.00
MEAT	4.35
SHRIMP:	
BREADED	1.00
SHELL-ON, HEADS-OFF	1.59
PEELED, RAW	2.04
PEELED, COOKED	3.13
OTHER	1.74
CLAMS, IN SHELL OR SHUCKED	0.40
OYSTERS:	
EXCEPT SEED	0.75
OTHER, PRINCIPALLY SEED	-
SCALLOPS	1.00
FROG LEGS	3.00
TURTLES, LIVE	1.00
EDIBLE - CONTINUED	
CANNED:	
ANCHOVIES	2.00
SALMON	1.52
SARDINES:	
4-OUNCE CANS:	
STEEL	1.41
ALUMINUM	1.72
1-POUND CANS, STEEL	1.62
ESTIMATED AVERAGE FOR VARIOUS SIZE STEEL AND ALUMINUM CANS (1964)	1.58
HERRING	2.00
TUNA:	
IN OIL, ALBACORE	1.88
IN BRINE:	
ALBACORE	1.82
OTHER	2.08
BONITO AND YELLOWTAIL:	
IN OIL	2.85
IN BRINE	2.85
POLLOCK, SMOKED	2.00
ANTIPASTO	1.50
FISH CAKES, ETC.	0.60
CAVIAR	-
FISH PASTE AND SAUCE	1.50
UNCLASSIFIED FISH	2.00
ABALONE	0.93
CLAMS:	
RAZOR AND OTHER	0.93
CHOWDER	0.30
CRAB MEAT	5.33
LOBSTER MEAT:	
COMMON	4.64
SPINY	4.50
SHRIMP	3.21
OYSTERS	0.93
SCALLOPS	0.93
SHELLFISH PASTE	2.00
UNCLASSIFIED SHELLFISH	3.00
CURED:	
DRIED:	
SHRIMP	7.69
COD, ETC.	4.88
SHARK FINS	-
UNCLASSIFIED	5.00
PICKLED OR SALTED:	
ALEWIVES	1.50
COD, ETC.:	
SKINNED OR BONED	4.50
OTHER	3.50
HERRING	2.22
MACKEREL	2.00
SALMON	1.50
UNCLASSIFIED	1.50
SMOKED OR KIPPERED:	
COD, ETC.:	
WHOLE, BEHEADED, ETC.	1.50
FILLETS, STEAKS, ETC.	3.40
HERRING:	
WHOLE OR BEHEADED:	
HARD DRY SMOKED	2.00
OTHER	1.50
BONED	4.50
MACKEREL	1.80
SALMON	1.66
UNCLASSIFIED	1.70
OTHER FISH AND SHELLFISH	1.50
INDUSTRIAL	
FISH MEAL:	
PERU AND CHILE:	
POUNDS	5.88
TONS	11,760
OTHER COUNTRIES:	
POUNDS	1/ 5.00
TONS	1/ 10,000
HERRING (BUREAU OF CUSTOMS DATA):	
BAIT	1.00
REDUCTION	1.00
CANNED, PET FOOD	1.00
PEARL ESSENCE	1.00

1/ FACTOR LOWERED TO COMPENSATE FOR IMPORTS OF MEAL PRODUCED FROM FILLET AND CANNERY TRIMMINGS.

NOTE:--THE FACTORS LISTED ARE FOR CONVERTING IMPORT WEIGHT TO POUNDS OF LIVE WEIGHT.

SOURCE:--UNPUBLISHED MANUSCRIPT ENTITLED, "LIVE (ROUND) WEIGHT OF FISHERY IMPORTS," BY E. A. POWER, STAFF SPECIALIST, DIVISION OF ECONOMICS.

SECTION 15 - GLOSSARY

In order to prevent misunderstanding in the use of common names employed in the tables and discussions, the following list of common and scientific names is given for fish, shellfish, and other aquatic products taken by United States fishermen.

Common names as shown in Bureau reports	Other common names	Scientific names
FISH		
Alewives	Branch herring, big-eyed herring, river herring	*Alosa pseudoharengus*
	Blueback, glut herring, shad herring	*Alosa aestivalis*
Amberjack	Jack	*Seriola* species
Anchovies		*Engraulis mordax* (Pacific)
Angelfish		*Pomacanthus* species *Angelichthys* species
Anglerfish	Goosefish, allmouth, headfish, monkfish, bellyfish	*Lophius americanus*
Ballyhoo	Balao	*Hemiramphus brasiliensis*
Barracuda		*Sphyraena* species
Bluefish	Tailor, skipjack	*Pomatomus saltatrix*
Blue pike	Pike perch, hard pike, blue pickerel (Canada)	*Stizostedion vitreum glaucum*
Blue runner	Runner, hardtail, crevalle	*Caranx crysos*
Bonito		*Sarda sarda* (Atlantic) *Sarda chiliensis* (Pacific)
Bowfin	Fresh-water dogfish, grindle	*Amia calva*
Brown trout		*Salmo trutta*
Buffalofish	Winter carp	*Ictiobus* species
Burbot	Lawyer, ling	*Lota lota*
Butterfish		*Poronotus triacanthus*
Cabezone	Marbled sculpin	*Scorpaenichthys marmoratus*
Cabio	Black bonito, cobia, ling, lemonfish	*Rachycentron canadus*
Cabrilla	Rock bass	*Epinephelus analogus* (Pacific)
Carp	German carp, summer carp	*Cyprinus carpio*
Catfish and bullheads		*Ictalurus* species *Pylodictis olivaris*
Chubs	Longjaw, bluefin, blackfin (United States), tullibee (Canada)	All *Leucichthys* except *artedi* (Great Lakes)
Cigarfish	Scad	*Decapterus punctatus*
Cisco	Herring (Canada)	*Leucichthys artedi* (Lake Erie only)
Cod	Codfish	*Gadus morhua* (Atlantic) *Gadus macrocephalus* (Pacific)
Crappie	White crappie, calico bass	*Pomoxis annularis*
	Black crappie	*Pomoxis nigromaculatus*
Crevalle	Common jack, jackfish	*Caranx hippos*
Croaker	Crocus, hardhead	*Micropogon undulatus*
Cunner	Chogset, blue perch, bergall	*Tautogolabrus adspersus*
Cutlassfish	Silver eel	*Trichiurus lepturus*
Cusk		*Brosme brosme*
Dolly Varden trout	Salmon trout, bull trout	*Salvelinus malma*
Dolphin		*Corphaena hippurus*
Drum:		
Black	Oyster cracker, oyster drum, sea drum	*Pogonias cromis*
Red	Channel bass, redfish, spotted bass	*Sciaenops ocellata*

(Continued on next page)

Common names as shown in Bureau reports	Other common names	Scientific names
FISH - Continued		
Eel:		
Common		*Anguilla rostrata*
Conger		*Conger oceanicus*
Flounders:		
Atlantic and Gulf Coasts:		
Gray sole		*Glyptocephalus cynoglossus*
Lemon sole	(weighing over 3-1/2 pounds each)	*Pseudopleuronectes americanus*
Blackback	Winter flounder (weighing under 3-1/2 pounds each)	
Yellowtail	Dab	*Limanda ferruginea*
Dab	Sea dab	*Hippoglossoides platessoides*
Fluke	Summer flounder, gulf flounder, flounder	*Paralichthys* species
Pacific Coast:		
Arrowtooth halibut		*Atheresthes stomias*
California halibut		*Paralichthys californicus*
Sand dabs		*Citharichthys sordidus*
"Sole":		
Dover		*Microstomus pacificus*
English		*Parophrys vetulus*
Petrale		*Eopsetta jordani*
Rex		*Glyptocephalus zachirus*
Sand		*Psettichthys melanostictus*
Unclassified		Pleuronectidae and Bothidae
Flying fish		*Cypselurus* species
Garfish	Gar, sea gar	*Lepisosteus* species
Gizzard shad	Nanny shad, mud shad, winter shad	*Dorosoma cepedianum*
Goldfish	Sand perch, gold perch	*Carassius auratus*
Groupers	"Sea bass"	*Epinephelus* species *Mycteroporca* species
Grunts	Margate fish, sailors' choice	*Haemulon* species
Haddock		*Melanogrammus aeglefinus*
Hake:		
Red	Squirrel hake, ling, black hake, mud hake	*Urophycis chuss* (Atlantic)
White	Hake	*Urophycis tenuis* (Atlantic)
Pacific	Merluccio	*Merluccius productus* (Pacific)
Halfmoon	Rudder fish	*Medialuna californiensis*
Halibut		*Hippoglossus hippoglossus* (Atlantic) *Hippoglossus stenolepis* (Pacific)
Hardhead	Sacramento rockfish	*Orthodon microlepidotus* (Pacific)
Harvestfish	Starfish, dollarfish, pappyfish, butterfish (N.C.)	*Peprilus paru*
Herring:		
Lake	Herring	*Leucichthys artedi* (Great Lakes except Erie)
Sea		*Clupea harengus* (Atlantic) *Clupea pallasii* (Pacific)
Thread		*Opisthonema oglinum*

(Continued on next page)

Common names as shown in Bureau reports	Other common names	Scientific names
FISH - Continued		
Hickory shad	Tailor shad, skip, autumnal herring	*Alosa mediocris*
Hogchoker		*Trinectes maculatus*
Hogfish	Capitaine, perro perro	*Lachnolaimus maximus*
Jack mackerel	Horse mackerel	*Trachurus symmetricus*
Jewfish		*Promicrops itaiara*
King croaker	Kingfish, white croaker	*Genyonemus lineatus*
King mackerel	Cero, kingfish	*Scomberomorus cavalla* *Scomberomorus regalis*
King whiting or "kingfish".	Whiting, sea mink, ground mullet	*Menticirrhus* species
Lake trout		*Salvelinus namaycush*
Lamprey		*Petromyzon marinus* (Atlantic) *Lampetra tridentatas* (Pacific)
Launce	Sand eel, lant, sand launce	*Ammodytes americanus*
Lingcod	Cultus cod, blue cod, buffalo cod, ling	*Ophiodon elongatus*
Boston mackerel		*Scomber scombrus* (Atlantic)
Pacific mackerel		*Scomber japonicus*
Menhaden	Mossbunker, pogy, fatback	*Brevoortia* species
Minnows		Cyprinidae
Mojarra	Sand perch, sand bream	Gerridae
Mooneye	Goldeye, toothed herring	*Hiodon* species
Mullet	Jumping mullet, striped mullet, silver mullet	*Mugil* species
Muttonfish	Mutton snapper	*Lutjanus analis*
Ocean perch:		
Atlantic	Rosefish, redfish, red perch	*Sebastes marinus*
Pacific		*Sebastodes alutus*
Ocean pout	Eelpout, sea pout	*Macrozoarces americanus*
Opaleye		*Girella nigricans*
Paddlefish	Spoonbill cat	*Polyodon spathula*
Perch	Surffish	Embiotocidae (Pacific)
Permit		*Trachinotus goodei*
Pigfish	Hogfish (N.C.)	*Orthopristis chrysopterus*
Pike or pickerel	Great Lakes pike	*Esox* species
Pinfish	Bream, salt-water bream	*Lagodon rhomboides*
Pollock	Boston bluefish	*Pollachius virens* (Atlantic)
Pompano		*Trachinotus* species (Atlantic) *Palometa simillima* (Pacific)
Quillback	Spearfish or skimfish	*Carpiodes* species
Ratfish		*Hydrolagus colliei*
Rock bass	Redeye, goggle-eye, groupers, sand bass	*Ambloplites rupestris* (fresh-water) *Paralabrax nebulifer* (Pacific)
Rockfishes	Rock cod, snapper	*Sebastodes* species (Pacific)
Sablefish	Black cod	*Anoplopoma fimbria*
Salmon:		
Atlantic		*Salmo salar* (Atlantic)
Pacific:		
Chinook or king	Tyee, spring	*Oncorhynchus tshawytscha*
Chum or keta	Fall, dog	*Oncorhynchus keta*
Pink	Humpback	*Oncorhynchus gorbuscha*
Red or sockeye	Blueback	*Oncorhynchus nerka*
Silver or coho		*Oncorhynchus kisutch*

(Continued on next page)

GLOSSARY

Common names as shown in Bureau reports	Other common names	Scientific names
FISH - Continued		
Sand perch	Yellowtail, silver perch	*Bairdiella chrysura*
Sardine (Pacific)	Pilchard	*Sardinops caerulea* (Pacific)
Sauger	Sand pike	*Stizostedion canadense*
Saury	Mackerel-pike	*Cololabis saira*
Sawfish		*Pristis pectinatus*
Sculpin	Scorpionfish	*Myoxocephalus* species
Scup or porgy	Porgee, paugy, fair maid	*Calamus and Stenotomus* species
Sea bass:		
Black	Black jewfish (Pacific) Blackfish (Atlantic)	*Stereolepis gigas* *Centropristes striatus*
White		*Cynoscion nobilis* (Pacific)
Sea catfish	Gafftopsail	*Bagre marinus*
Sea robin		*Prionotus* species
Sea trout or weakfish:		
Gray	Gray trout, squeteague	*Cynoscion regalis*
Spotted	Spotted trout, speckled trout	*Cynoscion nebulosus*
White	White trout, sand trout	*Cynoscion arenarius*
Shad	American shad, white shad	*Alosa sapidissima*
Sharks:		
Grayfish	Dogfish, spiny and smooth dog	*Squalus* and *Mustelus* species
Soupfin		*Galeorhinus zyopterus*
Other		*Carcharodon, Carcharias, Sphryna, Prionace and Lamna* species
Sheepshead:		
Fresh-water	Fresh-water drum, gaspergou, gou	*Aplodinotus grunniens*
Salt-water		*Archosargus* species (Atlantic)
	California redfish, fathead	*Pimelometopon pulcher* (Pacific)
Sierra		*Scomberomorus sierra* (Pacific)
Silversides	Spearing	*Menidia* species
Skates	Ray, rajafish	*Raja* species
Smelt		*Osmerus mordax* (Atlantic and Great Lakes), Atherinidae and Osmeridae (Pacific)
	Eulachon	*Thaleichthys pacificus*
Snapper:		
Mangrove	Gray snapper	*Lutjanus griseus*
Red		*Lutjanus blackfordii*
Vermilion		*Rhomboplites* species
Yellowtail		*Ocyurus chrysurus*
Snook	Robalo, sergeantfish, pike	*Centropomus undecimalis*
Spadefish	Angelfish	*Chaetodipterus faber*
Spanish mackerel	Mackerel	*Scomberomorus maculatus*
Spanish sardine		*Sardinella anchovia*
Splittail		*Pogonichthys macrolepidotus*
Spot	Lafayette, goody	*Leiostomus xanthurus*
Steelhead trout	Salmon trout	*Salmo gairdneri*

(Continued on next page)

GLOSSARY

Common names as shown in Bureau reports	Other common names	Scientific names
FISH - Continued		
Striped bass	Rockfish, rock	*Roccus saxatilis*
Sturgeon:		
Common		*Acipenser* species
Shovelnose		*Scaphirhynchus platorynchus*
Suckers	Fresh-water mullet, redfin, bayfish	*Catostomus* species
Sunfish	Bream, perch, bluegill	*Lepomis* species
Swellfish	Puffer, swell toad, globefish, blowfish	*Sphaeroides maculatus*
Swordfish		*Xiphias gladius*
Tautog	Blackfish, oysterfish	*Tautoga onitis*
Tenpounder	Big-eyed herring, ladyfish	*Elops saurus*
Thimble-eyed mackerel	Chub mackerel, bullseye mackerel	*Pneumatophorus colias*
Tilefish		*Lopholatilus chamaeleonticeps*
Tomcod	Frost fish	*Microgadus tomcod* (Atlantic) *Microgadus proximus* (Pacific)
Triggerfish		*Balistes* species
Tripletail	Sunfish (N.C.), blackfish	*Lobotes surinamensis*
Tullibee	(See chubs)	
Tuna:		
Albacore	Longfin tuna	*Thunnus alalunga*
Bluefin	Horse mackerel	*Thunnus thynnus*
Little	Bonito, albacore, false albacore	*Euthynnus alletteratus*
Skipjack	Striped tuna	*Katsuwonus pelamis*
Yellowfin		*Thunnus albacares*
Turbot		Pleuronectidae (Pacific)
Wahoo		*Acanthocybium solandri*
Warsaw	Black Jewfish	*Garrupa nigrita*
Whitebait	Silversides	*Menidia beryllina* (Atlantic) Small fry of several species (Pacific)
White bass	White lake bass	*Roccus chrysops*
Whitefish:		
Common		*Coregonus clupeaformis*
Menominee		*Prosopium quadrilaterale*
White perch		*Morone americana*
Whiting	Silver hake	*Merluccius bilinearis*
Wolffish	Ocean catfish (New England)	*Anarhichas lupus*
Yellow bass	Bar fish	*Roccus mississippiensis*
Yellow perch	Ringed perch, perch	*Perca flavescens*
Yellow pike	Wall-eyed pike, pike perch, dore (Canadian).	*Stizostedion vitreum vitreum*
Yellowtail	(For Atlantic, see snapper, yellowtail)	*Seriola dorsalis* (Pacific)
CRUSTACEANS		
Crabs:		
Blue:		
Hard	Hard-shell crab	*Callinectes sapidus*
Soft and peeler	Soft-shell crab	
Dungeness		*Cancer magister*
King	Alaska king crab	*Paralithodes camschatica*

(Continued on next page)

Common names as shown in Bureau reports	Other common names	Scientific names
CRUSTACEANS - Continued		
Crabs: - Continued		
Rock		*Cancer irroratus* (New England) *Cancer* species (California)
Stone		*Menippe mercenaria*
Crawfish:		
Fresh-water	Crayfish	*Cambarus* species (Atlantic) *Astacus* species (Pacific)
Salt-water	(See lobsters, spiny)	
Horseshoe crab	King crab	*Limulus* species
Lobsters:		
Northern		*Homarus americanus* (Atlantic)
Spiny	Sea crawfish, rock lobster	*Panulirus argus* (Atlantic) *Panulirus interruptus* (Pacific)
Shrimp	Prawn	*Penaeus*, *Pandalus*, and *Xiphopenaeus* (Atlantic), *Pandalus*, *Pandalopsis*, and *Crangon* species (Pacific)
MOLLUSKS		
Abalone		*Haliotis* species
Clams:		
Cockle		*Cardium corbis* (Pacific)
Hard	Butter	*Saxidomus nuttalli* (Pacific)
	Little neck	*Protothaca staminea* (Pacific)
	Round clam, cherrystone, quahog, little neck	*Venus mercenaria*, *Mercenaria mercenaria*
Ocean quahog		*Arctica islandica*
Razor		*Ensis* species (Atlantic) *Siliqua patula* (Pacific)
Soft	Soft-shell clam, sand clam, nannynose, maninose	*Mya arenaria*
Surf	Skimmer	*Spisula solidissima*
Conchs		*Strombus* species *Busycon* species
Mussels:		
Sea		*Mytilus californianus* (Pacific) *Mytilus edulis* (Atlantic)
Fresh-water:		
Mussel shells		Unionidae
Pearls and slugs		
Octopus	Devilfish	*Paroctopus appollyon*
Oysters:		
Eastern	Cove	*Crassostrea virginica*
Pacific	Japanese	*Crassostrea gigas*
Western	Olympia, native	*Ostrea lurida*
Periwinkles or cockles		*Littorina* species
Scallops:		
Bay		*Pecten* species (Atlantic) *Pecten caurinus* (Pacific)
Sea		*Placopecten magellanicus*

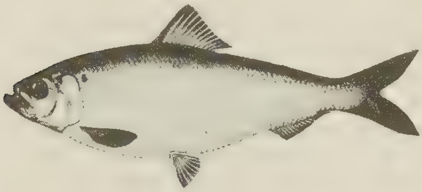
(Continued on next page)

Common names as shown in Bureau reports	Other Common names	Scientific names
MOLLUSKS - Continued		
Squid	Inkfish, bone squid, taw taw	*Loligo opalescens* (Pacific) *Loligo pealii* (Atlantic)
OTHER		
Sea urchins	Sea eggs	*Strongylocentrotus drobachiensis*
Terrapin	Diamond-back terrapin	*Malaclemys* species
Turtles:		
Baby		(Young of fresh-water species)
Green		*Chelonia mydas*
Loggerhead		*Caretta* species
Sliders		*Pseudemys* species
Snapper	Hard-shell, alligator turtle	*Chelydra serpentina* *Macrochelys temmickii*
Soft-shell		*Amyda* species
Frogs		*Rana* species
Irish moss		*Chondrus crispus*
Kelp		*Macrocystis* species
Sponges:		
Glove		*Hippiospongia conaliculata*
Grass		*Spongia graminea*
Sheepswool	Wool	*Hippiospongia lachne*
Yellow		*Spongia barbara*
Whales:		
Blue		*Balaenoptera musculus*
Bottlenose		*Berardius bairdi*
Fin		*Balaenoptera physalus*
Humpback		*Megaptera* species
Sei		*Balaenoptera borealis*
Sperm		*Physeter catodon*
Bloodworms		Glyceridae
Sandworms		*Nereis* species

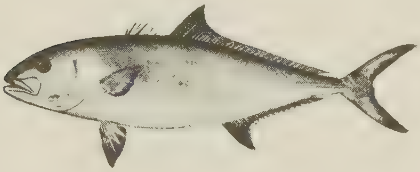
SECTION 16 - PICTORIAL SECTION

As many of the readers of this publication may not be familiar with all of the species of fish and shellfish, etc., taken commercially in the United States, illustrations of many of the various species are included in the following pages. The descriptive material appearing with each species includes the areas in which commercial landings are made in the United States and does not constitute the extreme limits in which they occur. Similarly, the gear listed for each species do not represent the only types of apparatus by which these species are obtained, but represent those types which are normally used in their capture. The gear do not necessarily appear in the order of their importance. Illustrations of species landed in Hawaii are not included in this section.

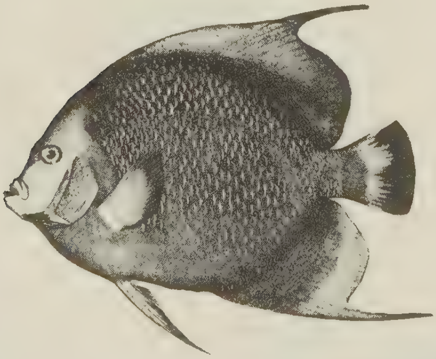
For more detailed information on the nomenclature of the fishery products listed below, the reader is referred to Section 15 of this publication entitled, "Glossary."



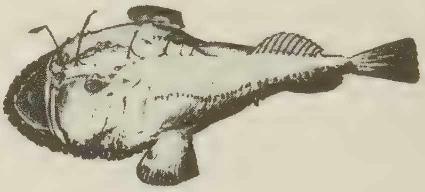
ALEWIFE
RANGE - FLORIDA TO NEW ENGLAND
GEAR - POUND NETS, GILL NETS, WEIRS,
DIP NETS, HAUL SEINES, FLOATING TRAPS,
FYKE NETS



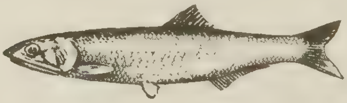
AMBERJACK
RANGE - FLORIDA
GEAR - HANDLINES, TROLL LINES



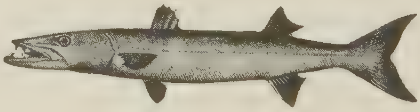
ANGELFISH
RANGE - FLORIDA
GEAR - HAUL SEINES



ANGLERFISH
RANGE - NEW JERSEY TO MASSACHUSETTS
GEAR - OTTER TRAWLS, POUND NETS



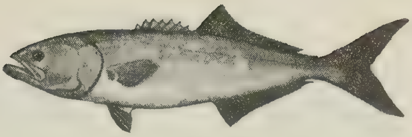
ANCHOVY
RANGE - CALIFORNIA TO WASHINGTON
GEAR - PURSE SEINES AND HAUL SEINES



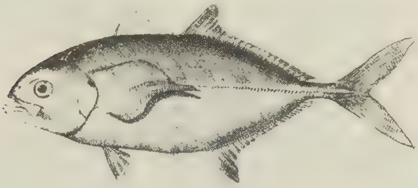
BARRACUDA (ATLANTIC)
RANGE - FLORIDA
GEAR - TROLL LINES, HANDLINES

BARRACUDA (PACIFIC)
RANGE - CALIFORNIA
GEAR - PURSE SEINES, LONGLINES, HANDLINES,
TROLL LINES, GILL AND TRAMMEL NETS

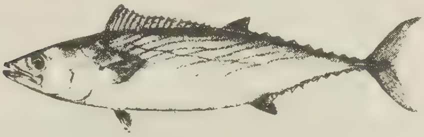
PICTORIAL SECTION



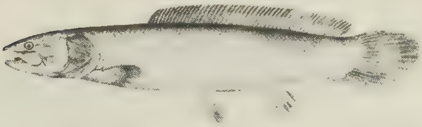
BLUEFISH
RANGE - GULF OF MEXICO TO NEW ENGLAND
GEAR - HAUL SEINES, GILL NETS, POUND NETS,
TROLL LINES, PURSE SEINES



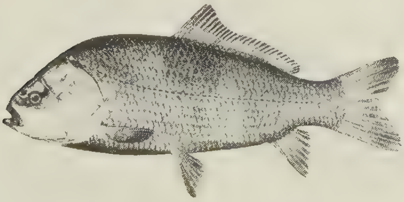
BLUE RUNNER OR HARDTAIL
RANGE - GULF OF MEXICO
GEAR - HAUL SEINES, GILL NETS, POTS



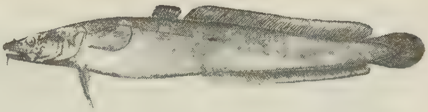
BONITO (ATLANTIC)
RANGE - NORTH CAROLINA TO MASSACHUSETTS
GEAR - POUND NETS, TROLL LINES, GILL NETS



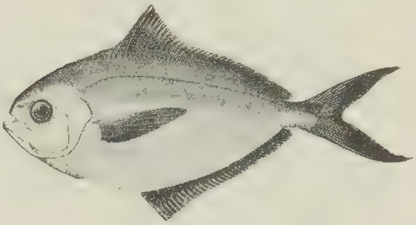
BOWFIN
RANGE - FRESH-WATER
GEAR - HAUL SEINES, TRAP NETS, FYKE NETS



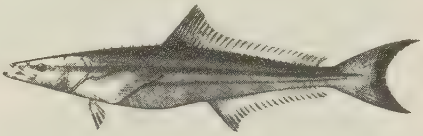
BUFFALOFISH
RANGE - FRESH-WATER
GEAR - HAUL SEINES, FYKE NETS, TRAMMEL
NETS, TROTLINES



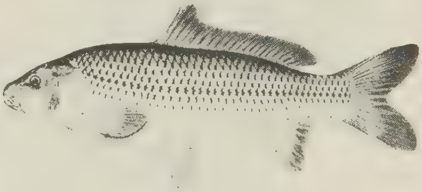
BURBOT
RANGE - GREAT LAKES
GEAR - GILL NETS, FYKE NETS, POUND
NETS, TRAP NETS



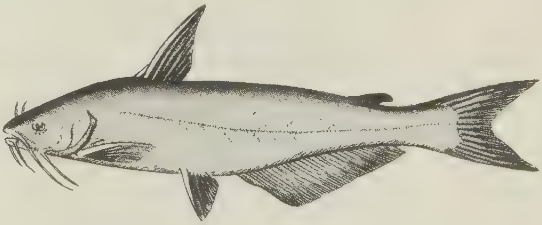
BUTTERFISH
RANGE - FLORIDA TO NEW ENGLAND
GEAR - POUND NETS, HAUL SEINES, OTTER TRAWLS



CABIO
RANGE - FLORIDA TO VIRGINIA
GEAR - HANDLINES, POUND NETS

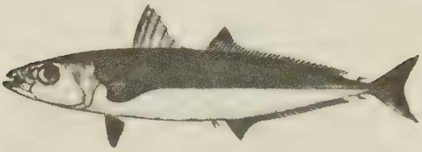


CARP
RANGE - FRESH-WATER
GEAR - HAUL SEINES, GILL NETS, TRAP NETS,
FYKE NETS, POUND NETS, TROTLINES

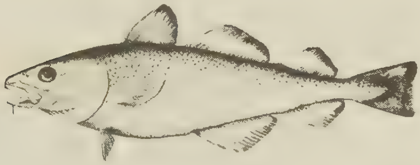


CATFISH
RANGE - FRESH-WATER
GEAR - HAUL SEINES, TROTLINES, POUND
NETS, POTS, FYKE NETS

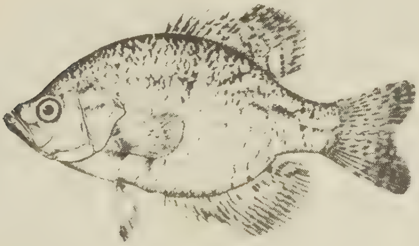
CHUB
RANGE - GREAT LAKES
GEAR - GILL NETS



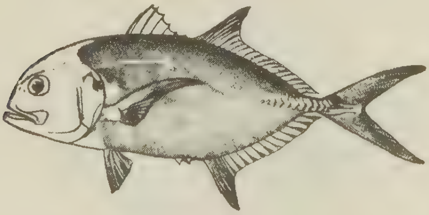
CIGARFISH
RANGE - FLORIDA
GEAR - HAUL SEINES



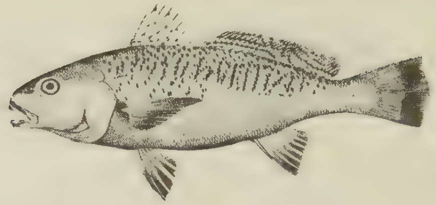
COD
RANGE - VIRGINIA TO MAINE, WASHINGTON, AND ALASKA
GEAR - OTTER TRAWLS, LONGLINES, GILL NETS



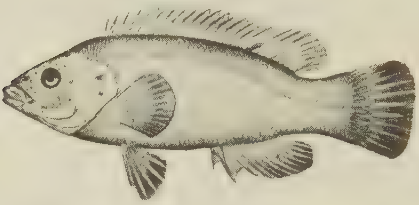
CRAPPIE
RANGE - FRESH-WATER LAKES
GEAR - HAUL SEINES, LINES, POTS



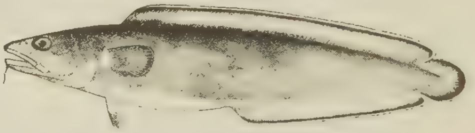
CREVALLE
RANGE - SOUTH ATLANTIC AND GULF STATES
GEAR - HAUL SEINES, GILL NETS, LINES



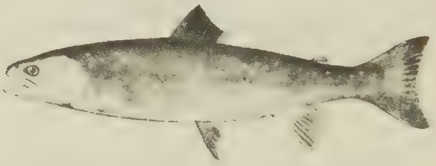
CROAKER
RANGE - GULF OF MEXICO TO NEW YORK
GEAR - POUND NETS, OTTER TRAWLS, HAUL SEINES, GILL NETS



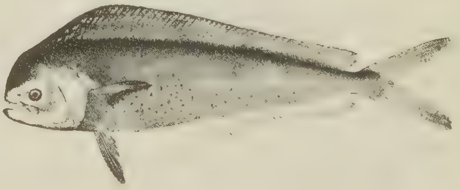
CUNNER
RANGE - NEW ENGLAND
GEAR - OTTER TRAWLS, HANDLINES



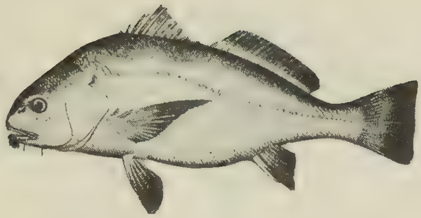
CUSK
RANGE - NEW ENGLAND
GEAR - OTTER TRAWLS, LONGLINES



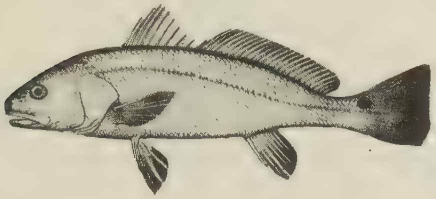
DOLLY VARDEN TROUT
RANGE - PACIFIC
GEAR - POUND NETS, GILL NETS, LINES



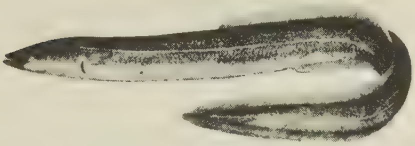
DOLPHIN
RANGE - FLORIDA TO NORTH CAROLINA
GEAR - TROLL LINES



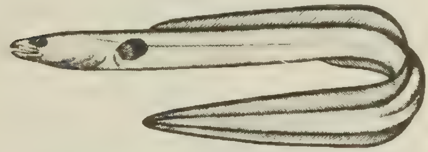
DRUM, BLACK
RANGE - TEXAS TO NORTH CAROLINA
GEAR - HAUL SEINES, POUND NETS, LINES



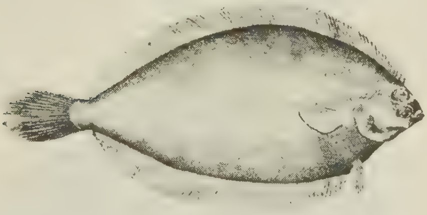
DRUM, RED
RANGE - TEXAS - MARYLAND
GEAR - POUND NETS, HAUL SEINES, GILL NETS,
LINES



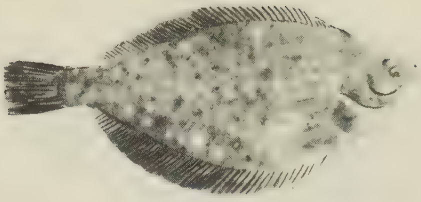
EEL, COMMON
RANGE - FLORIDA TO NEW ENGLAND AND IN
MISSISSIPPI RIVER, LAKE ONTARIO
GEAR - POTS, SPEARS, POUND NETS



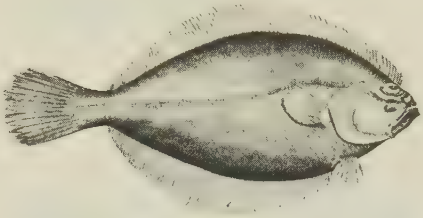
EEL, CONGER
RANGE - FLORIDA TO NEW ENGLAND
GEAR - OTTER TRAWLS



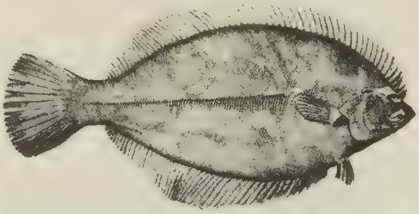
GRAY SOLE
RANGE - MASSACHUSETTS TO MAINE
GEAR - OTTER TRAWLS



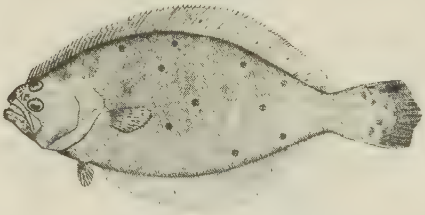
LEMON SOLE
RANGE - NEW YORK TO MAINE
GEAR - OTTER TRAWLS



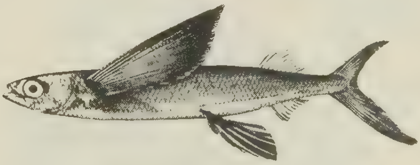
DAB
RANGE - MASSACHUSETTS TO NOVA SCOTIA
GEAR - OTTER TRAWLS, LONGLINES



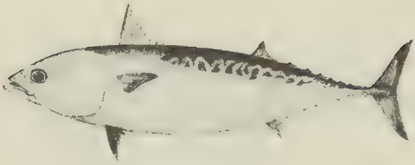
BLACKBACK OR WINTER FLOUNDER
RANGE - NORTH CAROLINA TO MAINE
GEAR - OTTER TRAWLS, POUND NETS, FYKE NETS,
SPEARS, LINES



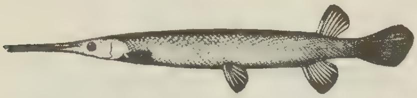
FLUKE
RANGE - TEXAS TO MASSACHUSETTS
GEAR - OTTER TRAWL, SPEARS, LINES



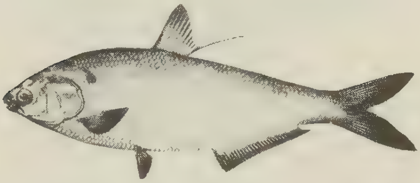
FLYING FISH
RANGE - PACIFIC AND ATLANTIC OCEANS
GEAR - GILL NETS



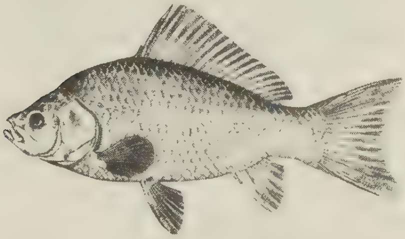
FRIGATE MACKEREL
RANGE - MIDDLE ATLANTIC
GEAR - POUND NETS



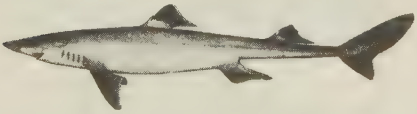
GARFISH
RANGE - FRESH-WATER
GEAR - HAUL SEINES, LINES



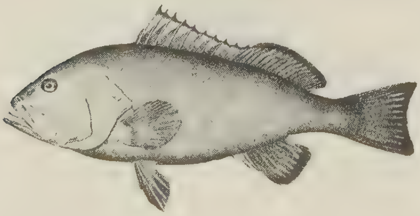
GIZZARD SHAD
RANGE - NORTH CAROLINA TO MARYLAND,
GREAT LAKES
GEAR - HAUL SEINES, POUND NETS, GILL NETS



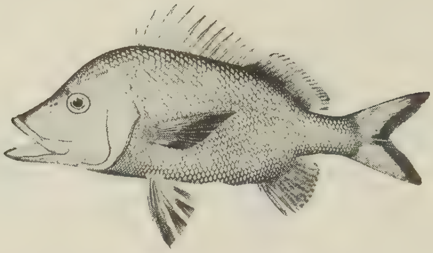
GOLDFISH
RANGE - LAKES AND RIVERS
GEAR - HAUL SEINES, TRAP NETS, FYKE NETS



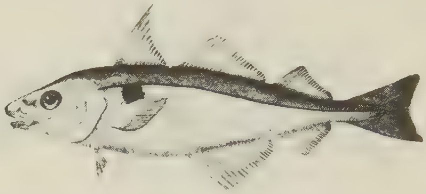
GRAYFISH
RANGE - PACIFIC
GEAR - LONGLINES, OTTER TRAWLS, GILL NETS



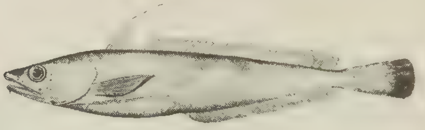
GROUPER
RANGE - TEXAS TO SOUTH CAROLINA
GEAR - HANDLINES, POTS



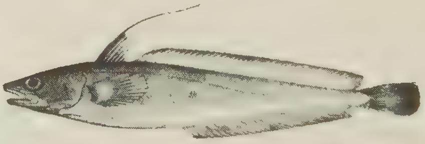
GRUNT
RANGE - FLORIDA
GEAR - POTS, GILL NETS, LINES



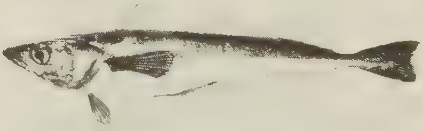
HADDOCK
RANGE - NEW ENGLAND STATES
GEAR - OTTER TRAWLS, GILL NETS, LONGLINES



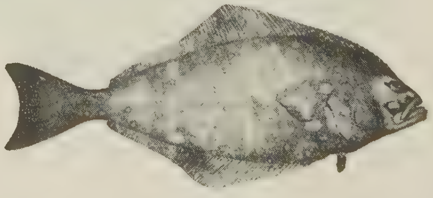
HAKE, RED
RANGE - CHESAPEAKE BAY TO NEW ENGLAND
GEAR - GILL NETS, OTTER TRAWLS, LONGLINES



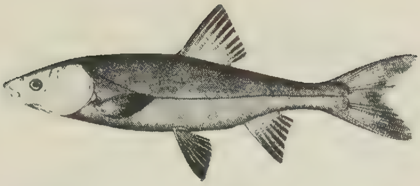
HAKE, WHITE
RANGE - CHESAPEAKE BAY TO NEW ENGLAND
GEAR - GILL NETS, OTTER TRAWLS, LONGLINES



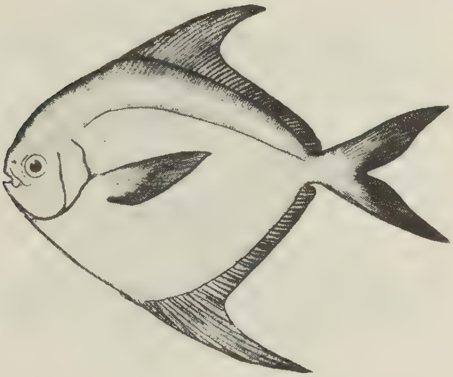
HAKE (PACIFIC)
RANGE - PACIFIC
GEAR - OTTER TRAWLS



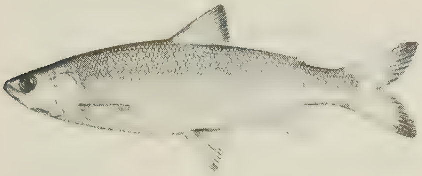
HALIBUT
RANGE - PACIFIC COAST - NEW ENGLAND
GEAR - LONGLINES, OTTER TRAWLS



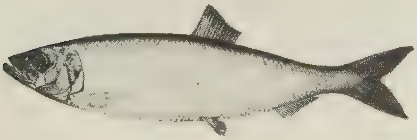
HARDHEAD
RANGE - CALIFORNIA
GEAR - FYKE NETS



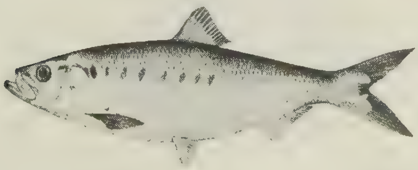
HARVESTFISH OR "STARFISH"
RANGE - NORTH CAROLINA TO CHESAPEAKE BAY
GEAR - HAUL SEINES, POUND NETS



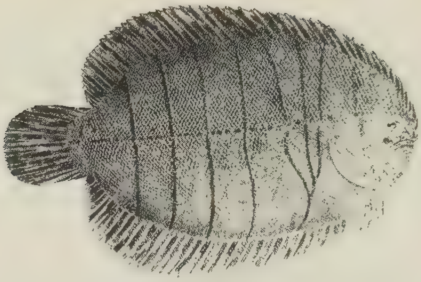
HERRING, LAKE
RANGE - GREAT LAKES
GEAR - GILL NETS, HAUL SEINES, POUND NETS,
TRAP NETS



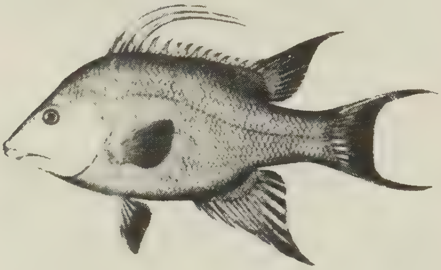
HERRING, SEA
RANGE - NEW JERSEY TO NEW ENGLAND, PACIFIC
COAST STATES AND ALASKA
GEAR - PURSE SEINES, WEIRS, FLOATING TRAPS,
STOP SEINES



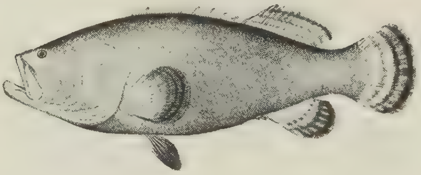
HICKORY SHAD
RANGE - FLORIDA TO RHODE ISLAND
GEAR - POUND NETS, HAUL SEINES, GILL NETS
FLOATING TRAPS



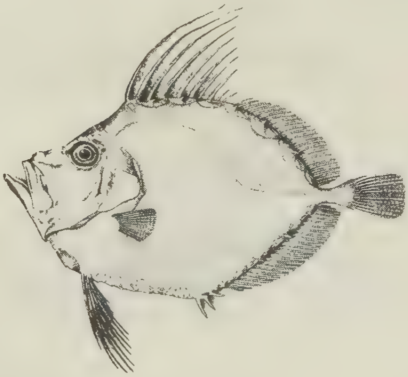
HOGCHOKER
RANGE - CHESAPEAKE BAY
GEAR - POUND NETS, HAUL SEINES



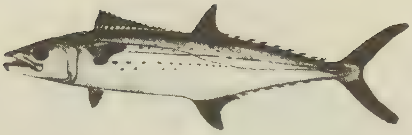
HOGFISH
RANGE - FLORIDA
GEAR - LINES



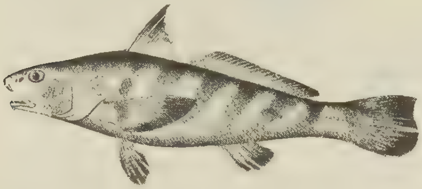
JEWFISH
RANGE - FLORIDA
GEAR - HANDLINES



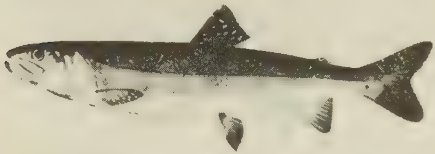
JOHN DORY
RANGE - MIDDLE ATLANTIC STATES
GEAR - OTTER TRAWLS



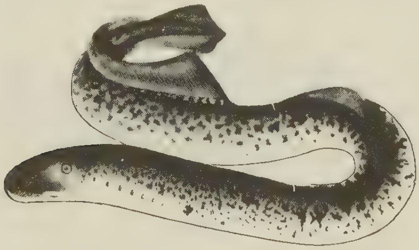
KING MACKEREL
RANGE - TEXAS TO NEW YORK
GEAR - TROLL LINES, GILL NETS, HANDLINES



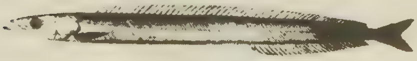
KING WHITING
RANGE - TEXAS TO MASSACHUSETTS
GEAR - OTTER TRAWLS, HAUL SEINES, POUND NETS



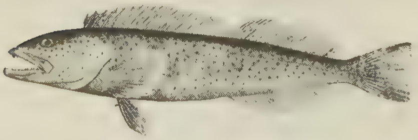
LAKE TROUT
RANGE - GREAT LAKES
GEAR - GILL NETS, LINES, POUND NETS (TRAP NETS)



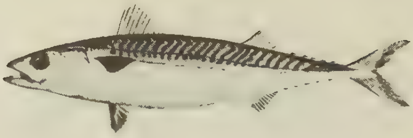
LAMPREY
RANGE - FRESH-WATER
GEAR - POTS, FYKE NETS



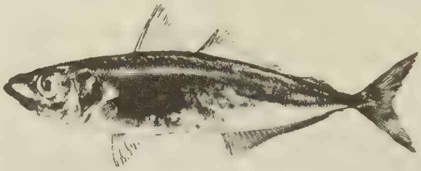
LAUNCE
RANGE - NEW ENGLAND
GEAR - HAUL SEINES



LINGCOD
RANGE - CALIFORNIA TO ALASKA
GEAR - OTTER TRAWLS, LONGLINES, HANDLINES

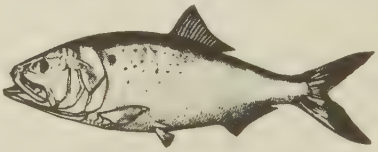


MACKEREL, ATLANTIC
RANGE - CHESAPEAKE BAY TO MAINE
GEAR - PURSE SEINES, GILL NETS, POUND NETS,
FLOATING TRAPS

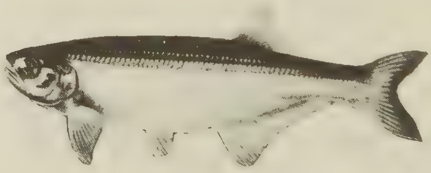


MACKEREL, JACK
RANGE - CALIFORNIA
GEAR - LINES, SEINES, LAMPARA NETS

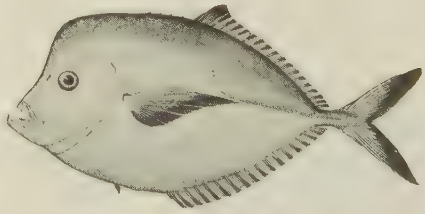
MACKEREL, PACIFIC
RANGE - CALIFORNIA
GEAR - LINES, SEINES, LAMPARA NETS



MENHADEN
RANGE - GULF OF MEXICO TO NEW ENGLAND
GEAR - PURSE SEINES, POUND NETS

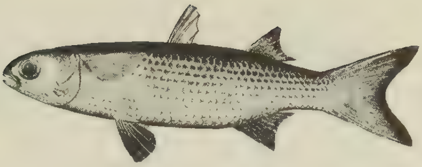


MOONEYE
RANGE - GREAT LAKES
GEAR - HAUL SEINES

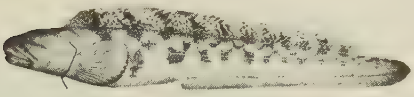


MOONFISH
RANGE - FLORIDA
GEAR - HANDLINES, HAUL SEINES

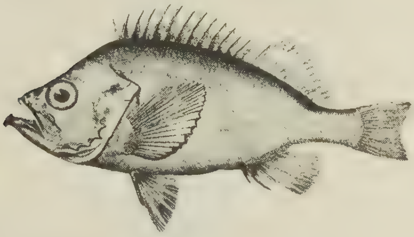
PICTORIAL SECTION



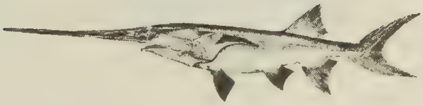
MULLET
RANGE - TEXAS TO NEW JERSEY
GEAR - GILL NETS, HAUL SEINES, POUND NETS, CAST NETS



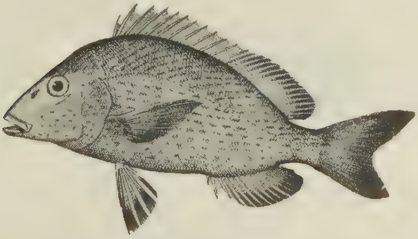
OCEAN POUT
RANGE - NEW ENGLAND
GEAR - OTTER TRAWLS



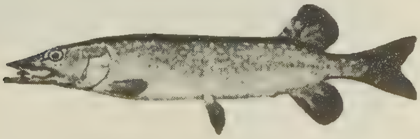
OCEAN PERCH
RANGE - NEW ENGLAND
GEAR - OTTER TRAWLS



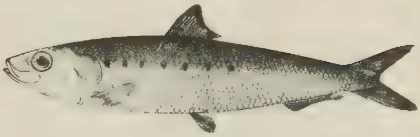
PADDLEFISH
RANGE - GULF OF MEXICO, MISSISSIPPI RIVER
GEAR - HAUL SEINES, TROTLINES



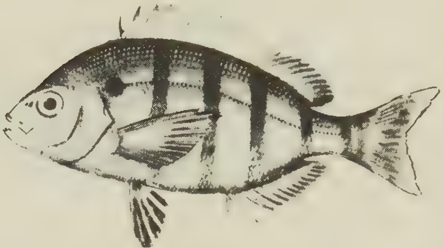
PIGFISH
RANGE - FLORIDA
GEAR - POTS, HANDLINES, GILL NETS



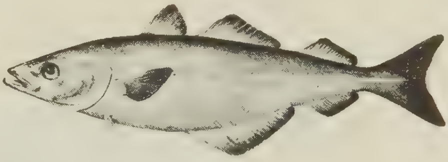
PIKE OR PICKEREL
RANGE - FRESH-WATER
GEAR - TRAP NETS, FYKE NETS, GILL NETS, POUND NETS, HANDLINES



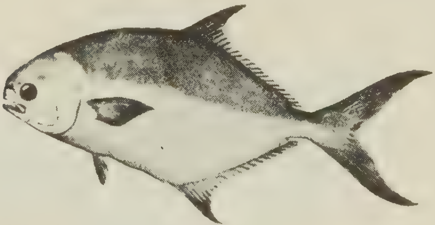
SARDINE, PACIFIC (PILCHARD)
RANGE - CALIFORNIA TO WASHINGTON
GEAR - PURSE SEINES, LAMPARA AND RING NETS, GILL NETS



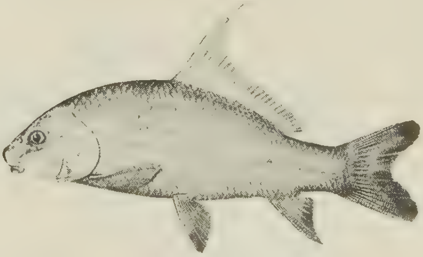
PINFISH
RANGE - FLORIDA TO NORTH CAROLINA
GEAR - HAUL SEINES, GILL NETS



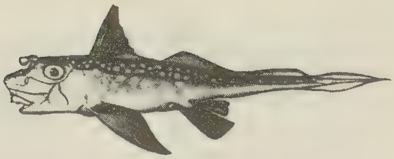
POLLOCK
RANGE - MIDDLE ATLANTIC AND NEW ENGLAND STATES
GEAR - LONGLINES, FLOATING TRAPS, POUND NETS, OTTER TRAWLS, GILL NETS



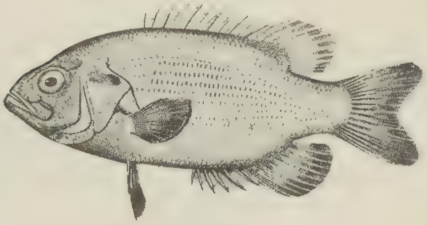
POMPANO
RANGE - TEXAS TO NORTH CAROLINA
GEAR - TRAMMEL NETS, HAUL SEINES, GILL NETS, HANDLINES



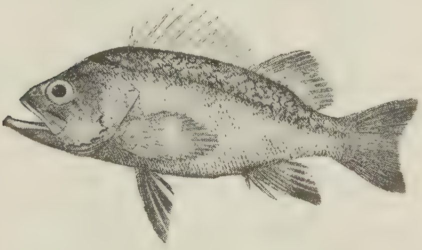
QUILLBACK
RANGE - FRESH-WATER
GEAR - HAUL SEINES, TROTLINES, FYKE NETS



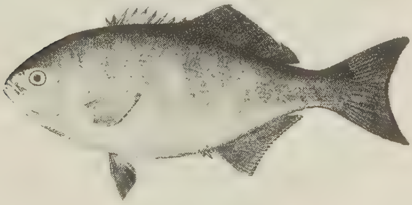
RATFISH
RANGE - WASHINGTON TO ALASKA
GEAR - BEAM TRAWLS, LONGLINES



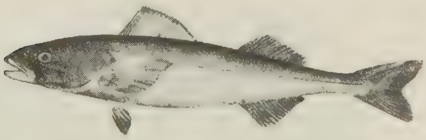
ROCK BASS
RANGE - GREAT LAKES
GEAR - TRAP NETS, FYKE NETS, HAUL SEINES,
GILL NETS



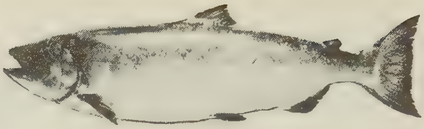
ROCKFISH
RANGE - CALIFORNIA TO ALASKA
GEAR - LINES, OTTER TRAWLS, PARANZELLA NETS,
GILL NETS



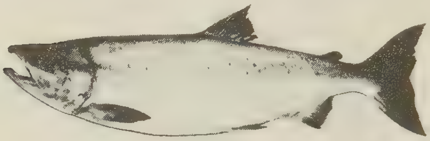
RUDDERFISH
RANGE - CALIFORNIA
GEAR - LAMPARA AND RING NETS



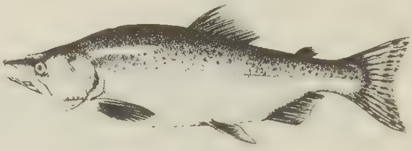
SABLEFISH
RANGE - PACIFIC COAST STATES AND ALASKA
GEAR - LONGLINES, OTTER TRAWLS



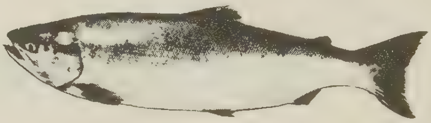
SALMON, CHINOOK OR KING
RANGE - CALIFORNIA TO ALASKA
GEAR - POUND NETS, PURSE SEINES, GILL NETS,
HAUL SEINES, TROLL LINES, REEF NETS



SALMON, CHUM OR KETA
RANGE - OREGON TO ALASKA
GEAR - POUND NETS, PURSE SEINES, GILL NETS,
HAUL SEINES, REEF NETS

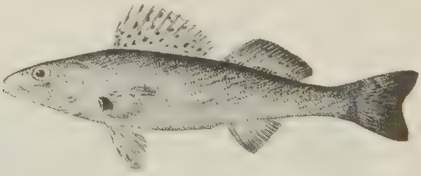


SALMON, PINK
RANGE - WASHINGTON TO ALASKA
GEAR - PURSE SEINES, POUND NETS, GILL NETS
REEF NETS

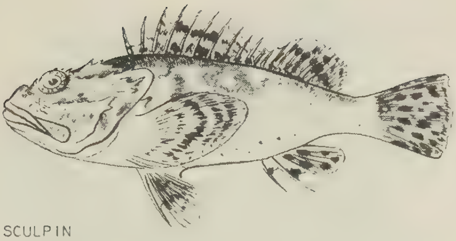


SALMON, RED OR SOCKEYE
RANGE - OREGON TO ALASKA
GEAR - GILL NETS, PURSE SEINES, POUND NETS,
REEF NETS

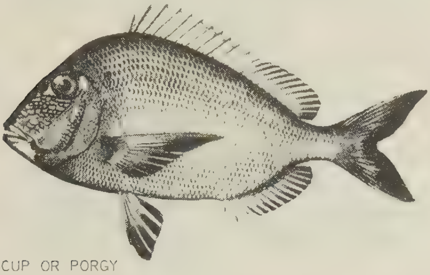
SALMON, SILVER OR COHO
RANGE - CALIFORNIA TO ALASKA
GEAR - HAUL SEINES, PURSE SEINES, GILL NETS,
TROLL LINES, POUND NETS, REEF NETS



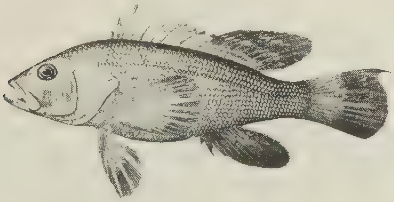
SAUGER
RANGE - GREAT LAKES
GEAR - GILL NETS, HAUL SEINES, TRAP NETS,
FYKE NETS



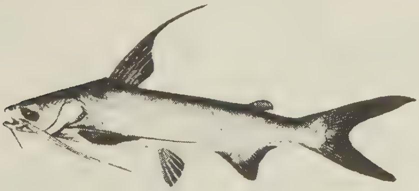
SCULPIN
RANGE - PACIFIC COAST STATES AND ALASKA
GEAR - LINES, GILL NETS, POTS



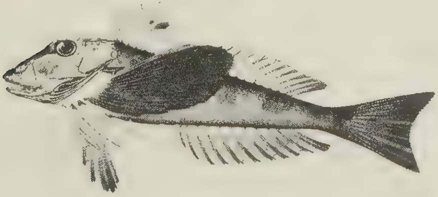
SCUP OR PORGY
RANGE - FLORIDA TO NEW ENGLAND
GEAR - OTTER TRAWLS, POUND NETS



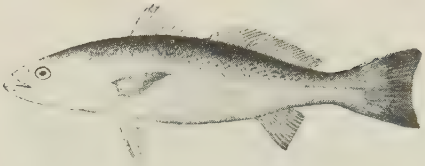
SEA BASS
RANGE - FLORIDA TO NEW ENGLAND
GEAR - OTTER TRAWLS, HANDLINES, POTS



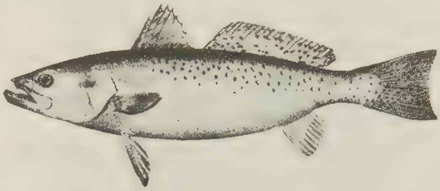
SEA CATFISH
RANGE - TEXAS TO CHESAPEAKE BAY
GEAR - OTTER TRAWLS, HAUL SEINES, HANDLINES



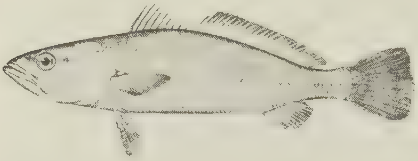
SEA ROBIN
RANGE - CHESAPEAKE BAY TO NEW ENGLAND
GEAR - POUND NETS, OTTER TRAWLS



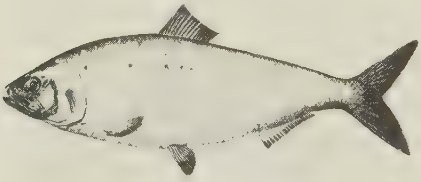
SEA TROUT OR WEAKFISH, GRAY
RANGE - FLORIDA TO MASSACHUSETTS
GEAR - OTTER TRAWLS, POUND NETS, PURSE SEINES, GILL NETS, HAUL SEINES



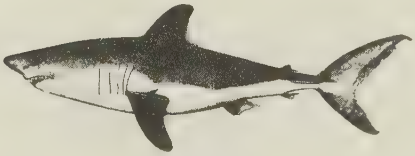
SEA TROUT OR WEAKFISH, SPOTTED
RANGE - MARYLAND TO TEXAS
GEAR - GILL NETS, TRAMMEL NETS, HAUL SEINES, POUND NETS, OTTER TRAWLS, HANDLINES



SEA TROUT OR WEAKFISH, WHITE
RANGE - GULF OF MEXICO
GEAR - GILL NETS, HAUL SEINES, HANDLINES

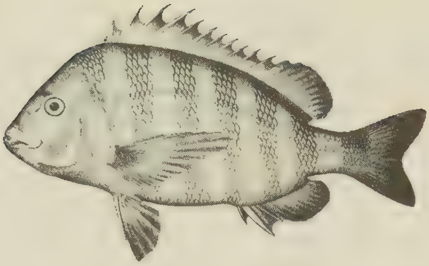


SHAD
RANGE - FLORIDA TO NEW ENGLAND
GEAR - GILL NETS, POUND NETS, FYKE NETS, HAUL SEINES

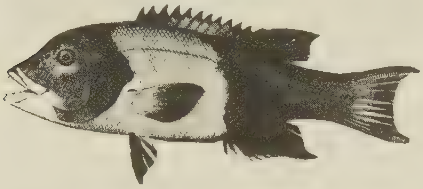


SHARK
RANGE - ATLANTIC COAST, GULF, PACIFIC COAST STATES
GEAR - LONGLINES, GILL NETS, OTTER TRAWLS

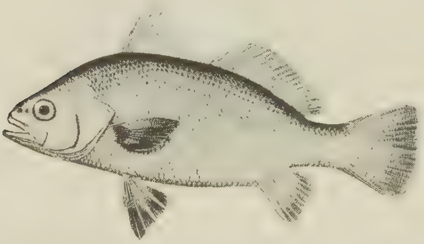
PICTORIAL SECTION



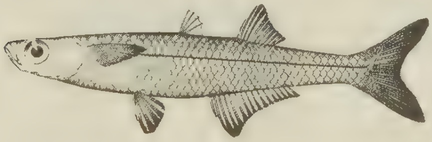
SHEEPSHEAD
RANGE - TEXAS TO CHESAPEAKE BAY
GEAR - HANDLINES, POTS



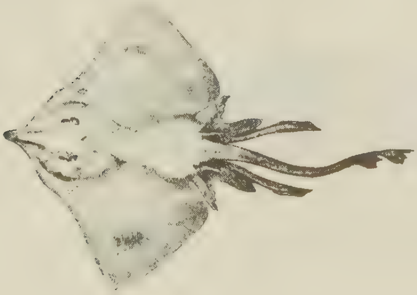
SHEEPSHEAD, CALIFORNIA
RANGE - CALIFORNIA
GEAR - LONGLINES, TRAMMEL NETS



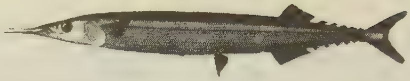
SAND PERCH
RANGE - TEXAS TO NEW YORK
GEAR - HAUL SEINES, GILL NETS, POUND NETS



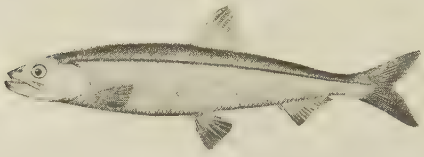
SILVERSIDES
RANGE - NEW YORK
GEAR - HAUL SEINES, OTTER TRAWLS



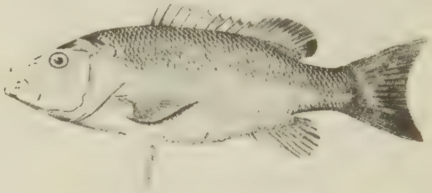
SKATE
RANGE - PACIFIC COAST, CHESAPEAKE BAY TO NEW ENGLAND
GEAR - LINES, OTTER TRAWLS, POUND NETS, HAUL SEINES



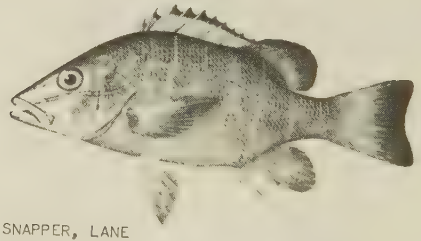
SKIPPER
RANGE - VIRGINIA TO NOVA SCOTIA
GEAR - POUND NETS, WEIRS



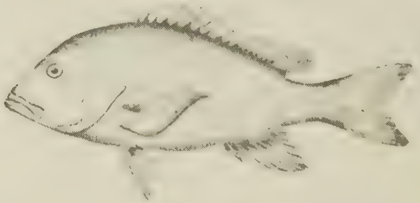
SMELT
RANGE - NEW YORK TO MAINE, PACIFIC OCEAN,
GREAT LAKES
GEAR - POUND NETS, DIP NETS, GILL NETS, HAUL SEINES



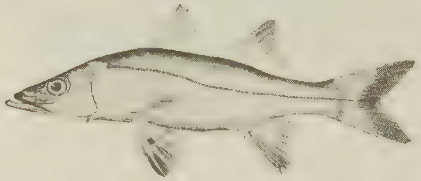
SNAPPER, MANGROVE
RANGE - FLORIDA
GEAR - HANDLINES, GILL NETS



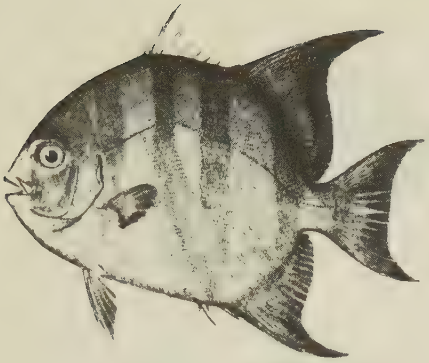
SNAPPER, LANE
RANGE - FLORIDA
GEAR - HANDLINES



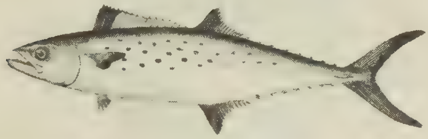
SNAPPER, RED
RANGE - TEXAS TO FLORIDA
GEAR - HANDLINES



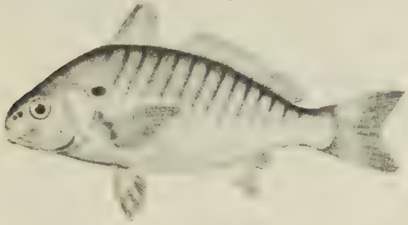
SNOOK
RANGE - TEXAS TO FLORIDA
GEAR - GILL NETS, HANDLINES, HAUL SEINES



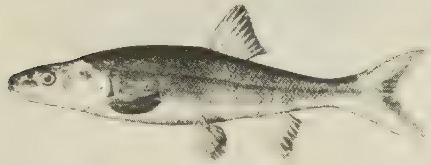
SPADEFISH
RANGE - FLORIDA
GEAR - GILL NETS, TRAMMEL NETS



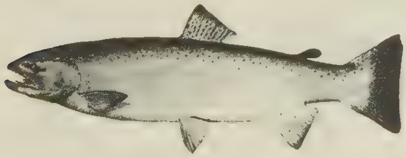
SPANISH MACKEREL
RANGE - TEXAS TO VIRGINIA
GEAR - GILL NETS, LINES, HAUL SEINES



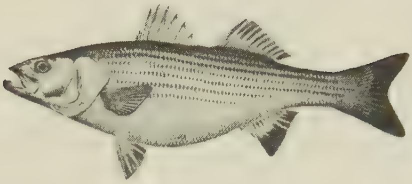
SPOT
RANGE - GULF OF MEXICO TO MIDDLE ATLANTIC STATES
GEAR - HAUL SEINES, GILL NETS, POUND NETS,
OTTER TRAWLS



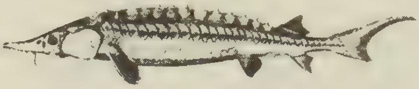
SQUAWFISH
RANGE - CALIFORNIA
GEAR - FYKE NETS, GILL NETS



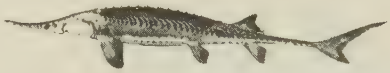
STEELHEAD TROUT
RANGE - OREGON TO ALASKA
GEAR - HAUL SEINES, POUND NETS, GILL NETS,
LINES, DIP NETS



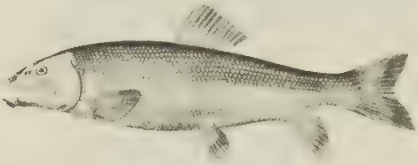
STRIPED BASS
RANGE - NORTH CAROLINA TO NEW ENGLAND, CALIFORNIA
TO OREGON
GEAR - HAUL SEINES, GILL NETS, POUND NETS,
HANDLINES, FYKE NETS



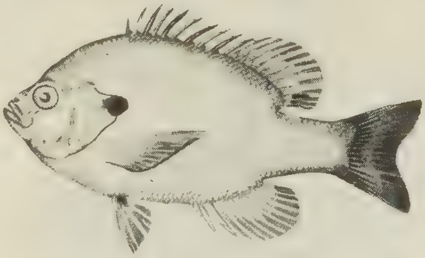
STURGEON
RANGE - COASTAL AND RIVER AREAS
GEAR - GILL NETS, LINES



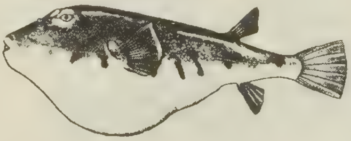
STURGEON, SHOVELNOSE
RANGE - FRESH-WATER
GEAR - HAUL SEINES, LINES, POUND NETS



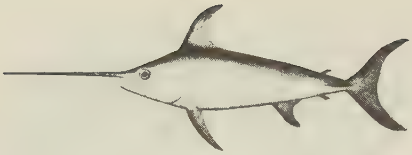
SUCKER
RANGE - FRESH-WATER
GEAR - POUND NETS, FYKE NETS, GILL NETS,
HAUL SEINES, TRAP NETS



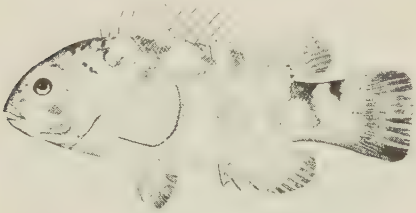
SUNFISH
RANGE - FRESH-WATER
GEAR - POTS, SEINES, TRAP NETS



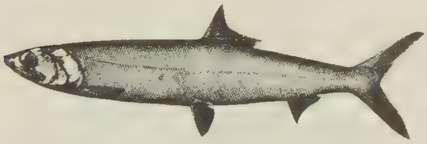
SWELLFISH
RANGE - CHESAPEAKE BAY TO MIDDLE ATLANTIC
GEAR - POUND NETS, HAUL SEINES, OTTER TRAWLS



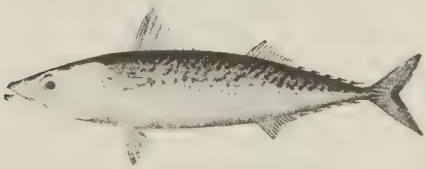
SWORDFISH
RANGE - NEW ENGLAND AND CALIFORNIA
GEAR - HARPOONS



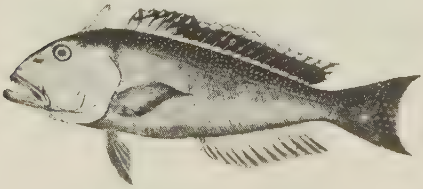
TAUTOG
RANGE - CHESAPEAKE BAY TO NEW ENGLAND
GEAR - POUND NETS, HANDLINES, POTS



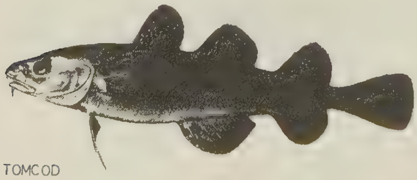
TENPOUNDER
RANGE - FLORIDA
GEAR - HAUL SEINES



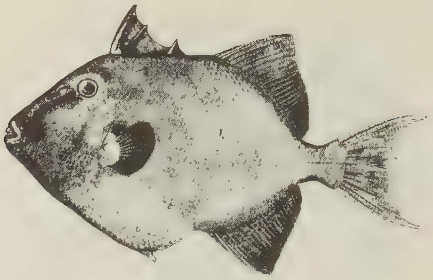
THIMBLE-EYED MACKEREL
RANGE - CHESAPEAKE BAY TO NEW ENGLAND
GEAR - POUND NETS, PURSE SEINES, OTTER TRAWLS



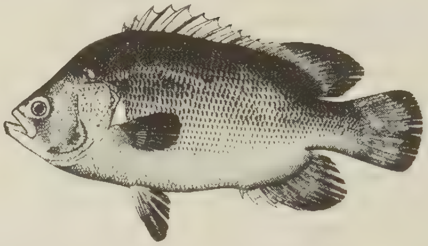
TILEFISH
RANGE - MIDDLE ATLANTIC AND NEW ENGLAND STATES
GEAR - LONGLINES, REEF NETS, OTTER TRAWLS



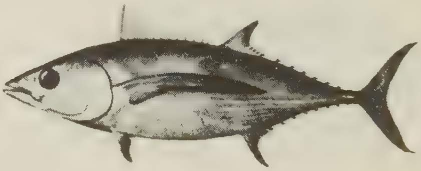
TOMCOD
RANGE - PACIFIC COAST, MIDDLE ATLANTIC AND
NEW ENGLAND STATES
GEAR - OTTER TRAWLS, DIP NETS



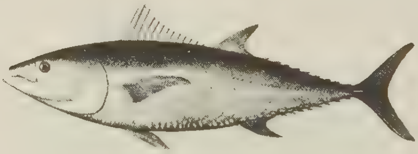
TRIGGERFISH
RANGE - FLORIDA
GEAR - HANDLINES



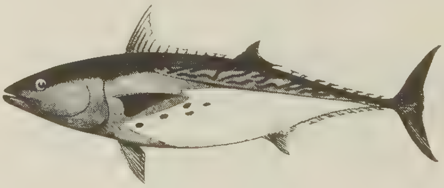
TRIPLETAIL
RANGE - FLORIDA
GEAR - HAUL SEINES, GILL NETS, LINES



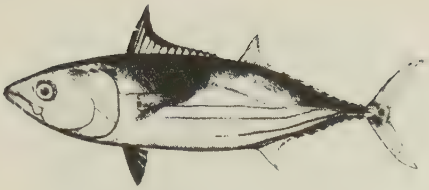
TUNA, ALBACORE
RANGE - PACIFIC COAST
GEAR - LINES



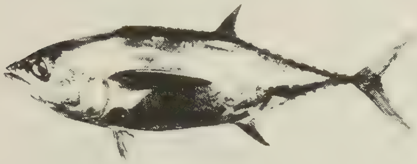
TUNA, BLUEFIN
RANGE - CALIFORNIA, NEW JERSEY TO MAINE
GEAR - PURSE SEINES, LAMPARA NETS, TROLL LINES,
POUND NETS, HARPOONS



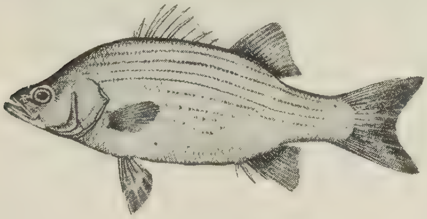
TUNA, LITTLE
RANGE - MASSACHUSETTS TO TEXAS
GEAR - POUND NETS, TROLL LINES, OTTER TRAWLS



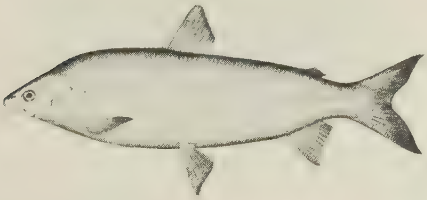
TUNA, SKIPJACK
RANGE - CALIFORNIA
GEAR - LINES AND PURSE SEINES



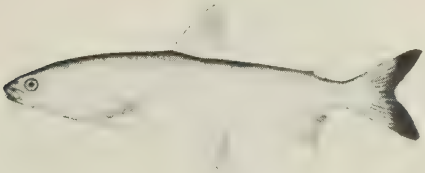
TUNA, YELLOWFIN
RANGE - PACIFIC
GEAR - LINES AND PURSE SEINES



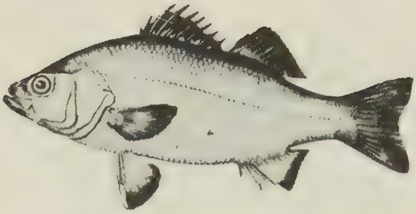
WHITE BASS
RANGE - GREAT LAKES
GEAR - TRAP NETS, FYKE NETS, HAUL SEINES,
POUND NETS



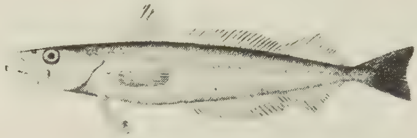
WHITEFISH, COMMON
RANGE - GREAT LAKES
GEAR - GILL NETS, POUND NETS, TRAP NETS



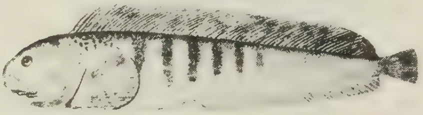
WHITEFISH, MENOMINEE
RANGE - ALASKA, GREAT LAKES
GEAR - GILL NETS, HAUL SEINES, TRAP NETS,
POUND NETS



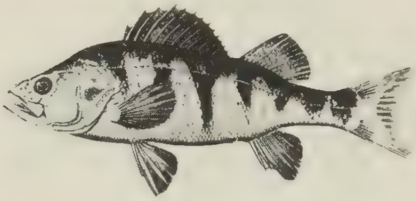
WHITE PERCH
RANGE - NORTH CAROLINA TO MAINE
GEAR - POUND NETS, FYKE NETS, HAUL SEINES



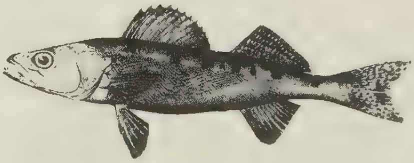
WHITING
RANGE - VIRGINIA TO MAINE
GEAR - OTTER TRAWLS, POUND NETS



WOLFFISH
RANGE - MASSACHUSETTS AND MAINE
GEAR - OTTER TRAWLS, LONGLINES

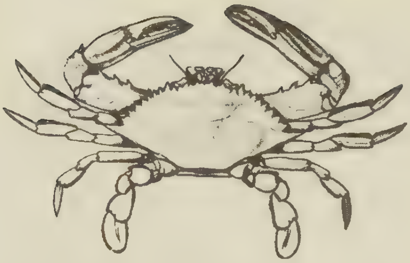


YELLOW PERCH
RANGE - GREAT LAKES, OTHER LAKES
GEAR - GILL NETS, TRAP NETS, POUND NETS,
FYKE NETS

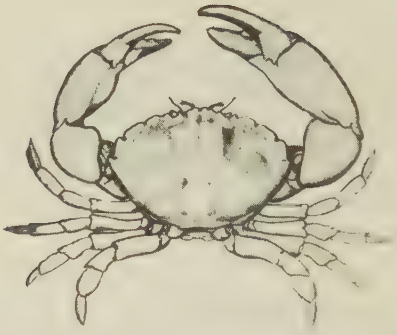


YELLOW PIKE
RANGE - GREAT LAKES
GEAR - POUND NETS, FYKE NETS, GILL NETS,
TRAP NETS

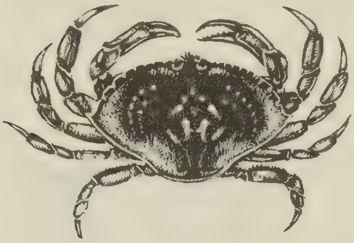
PICTORIAL SECTION



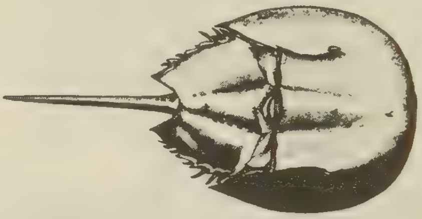
BLUE CRAB
RANGE - TEXAS TO RHODE ISLAND
GEAR - TROTLINES, POTS, FYKE NETS, DIP NETS, SCRAPES, DREDGES



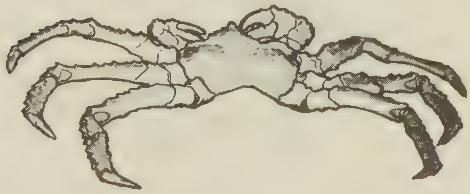
STONE CRAB
RANGE - FLORIDA
GEAR - DIP NETS, CRAB POTS



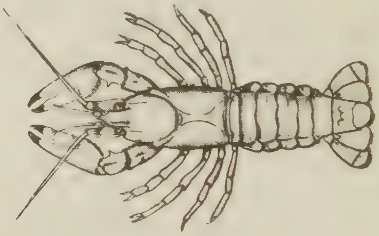
DUNGENESS CRAB
RANGE - PACIFIC COAST STATES AND ALASKA
GEAR - TRAPS



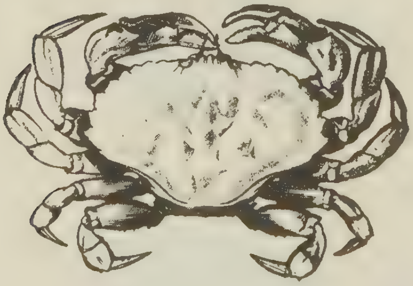
HORSESHOE CRAB
RANGE - MARYLAND TO NEW YORK
GEAR - POUND NETS, WEIRS, BY HAND



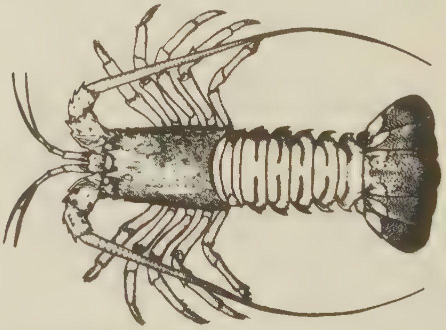
KING CRAB
RANGE - ALASKA
GEAR - POTS



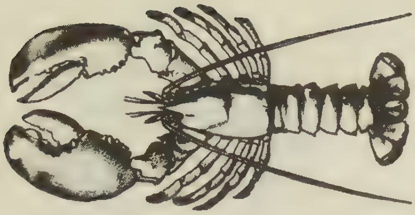
FRESH-WATER CRAWFISH
RANGE - RIVERS AND LAKES
GEAR - POTS



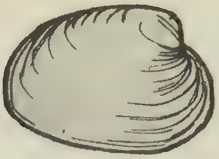
ROCK CRAB
RANGE - NEW ENGLAND
GEAR - POTS



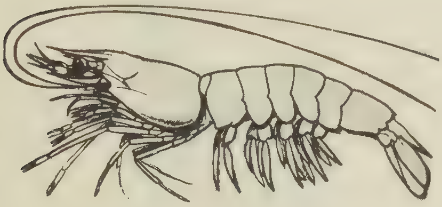
SPINY LOBSTER
RANGE - CALIFORNIA AND FLORIDA
GEAR - DIP NETS, POTS, HOOKS



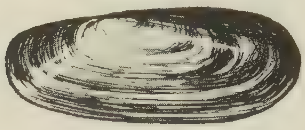
LOBSTER, NORTHERN
RANGE - VIRGINIA TO MAINE
GEAR - POTS, OTTER TRAWLS



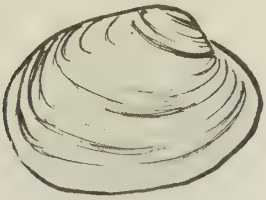
HARD CLAM
RANGE - FLORIDA TO MAINE
GEAR - HOES, DREDGES, TONGS, RAKES, BY HAND



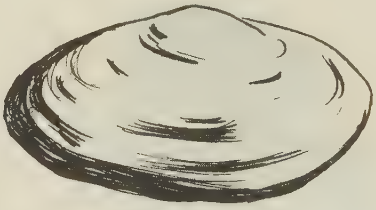
SHRIMP
RANGE - TEXAS TO NORTH CAROLINA, MAINE,
CALIFORNIA, WASHINGTON, AND ALASKA
GEAR - SHRIMP TRAWLS



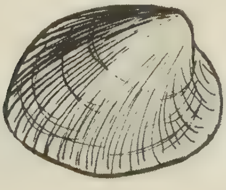
RAZOR CLAM, PACIFIC
RANGE - OREGON, WASHINGTON AND ALASKA
GEAR - SHOVELS



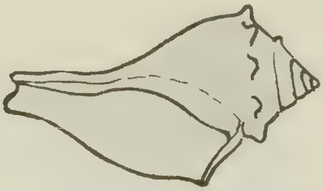
BUTTER CLAM
RANGE - PACIFIC COAST
GEAR - SHOVELS



SOFT CLAM
RANGE - MIDDLE ATLANTIC TO NEW ENGLAND,
PACIFIC COAST STATES
GEAR - FORKS, HOES, RAKES, DREDGES

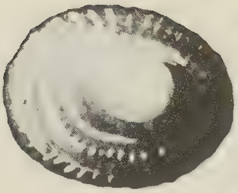


LITTLE NECK CLAM
RANGE - PACIFIC COAST
GEAR - SHOVELS

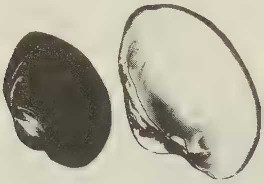


CONCH
RANGE - FLORIDA TO MAINE
GEAR - OTTER TRAWLS, DREDGES, POTS, AND BY HAND

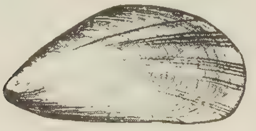
PICTORIAL SECTION



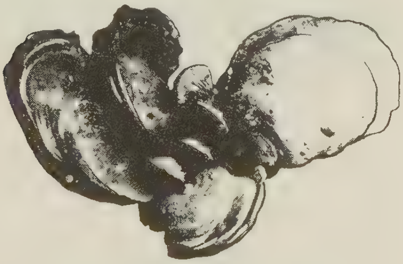
LIMPET
RANGE - NEW YORK AND NEW ENGLAND
GEAR - DREDGES



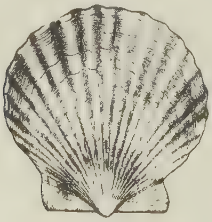
FRESH-WATER MUSSEL
RANGE - FRESH-WATER STREAMS
GEAR - CROWFOOT BARS, PICKS, HAND



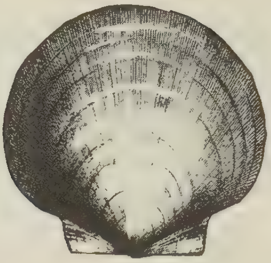
SEA MUSSEL
RANGE - NORTH CAROLINA TO MAINE
GEAR - DREDGES, TONGS, RAKES, HAND



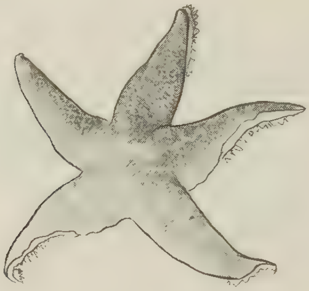
OYSTER
RANGE - TEXAS TO MASSACHUSETTS, PACIFIC COAST
GEAR - TONGS, DREDGES, RAKES, BY HAND



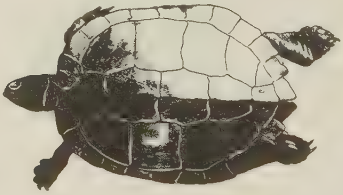
BAY SCALLOP
RANGE - FLORIDA TO MASSACHUSETTS, WASHINGTON
GEAR - DREDGES, SCRAPES, PUSH NETS, TONGS, RAKES, DIP NETS



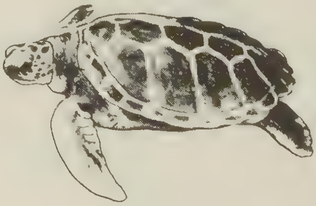
SEA SCALLOP
RANGE - NEW JERSEY TO MAINE
GEAR - DREDGES, OTTER TRAWLS



STARFISH
RANGE - ATLANTIC AND PACIFIC COAST
GEAR - HOOKS, SCRAPES, "MOPS"

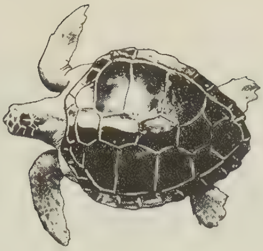


TERRAPIN
RANGE - TEXAS TO NEW JERSEY
GEAR - HAUL SEINES, BY HAND

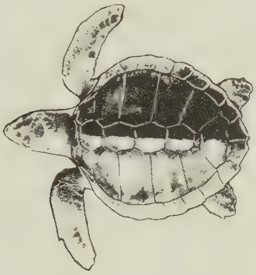


GREEN TURTLE
RANGE - FLORIDA
GEAR - GILL NETS

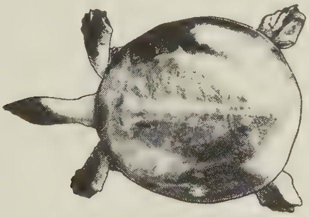
PICTORIAL SECTION



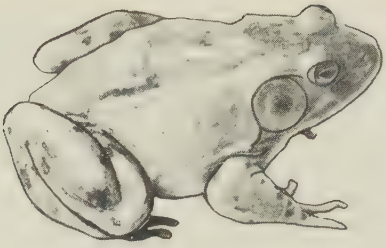
LOGGERHEAD TURTLE
RANGE - FLORIDA TO NEW JERSEY
GEAR - GILL NETS



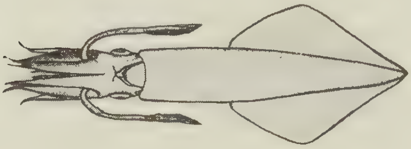
HAWKSBILL TURTLE
RANGE - GULF OF MEXICO, AND ATLANTIC COAST
TO NEW YORK
GEAR - BY HAND, POUND NETS



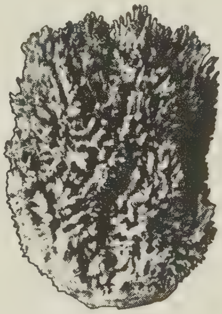
SOFT-SHELL TURTLE
RANGE - LAKES AND RIVERS
GEAR - HAUL SEINES, FYKE NETS, POTS



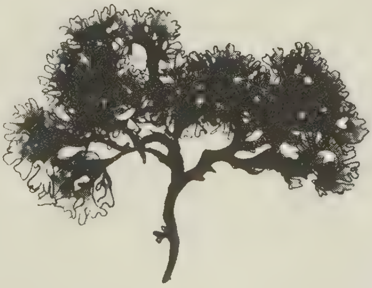
FROG
RANGE - FRESH-WATER, MARSHES, POND
GEAR - SPEARS, GRABS



SQUID
RANGE - VIRGINIA TO MAINE, CALIFORNIA AND
WASHINGTON
GEAR - LAMPARA NETS, GILL NETS, OTTER TRAWLS,
POUND NETS



SPONGE
RANGE - FLORIDA
GEAR - HOOKS, DIVING OUTFITS



IRISH MOSS
RANGE - NEW ENGLAND
GEAR - RAKES

SECTION 17 - STATISTICAL PUBLICATIONS

THE FOLLOWING LIST OF PUBLICATIONS INCLUDES ALL REPORTS ISSUED IN THE CURRENT FISHERY STATISTICS SERIES DURING 1964.

C. F. S. NO.	TITLE
3372	LOUISIANA LANDINGS, SEPTEMBER, 1963
3373	GULF FISHERIES, ANNUAL, 1962
3374	MISSISSIPPI LANDINGS, SEPTEMBER, 1963
3375	NEW YORK LANDINGS, OCTOBER, 1963
3376	FISH MEAL AND OIL, OCTOBER, 1963
3377	NEW JERSEY LANDINGS, SEPTEMBER, 1963
3378	WISCONSIN LANDINGS, OCTOBER, 1963
3379	LOUISIANA LANDINGS, OCTOBER, 1963
3380	NORTH CAROLINA LANDINGS, NOVEMBER, 1963
3381	CALIFORNIA LANDINGS, SEPTEMBER, 1963
3382	SHRIMP LANDINGS, AUGUST, 1963
3383	GULF COAST SHRIMP DATA, AUGUST, 1963
3384	MICHIGAN LANDINGS, SEPTEMBER, 1963
3385	OHIO LANDINGS, SEPTEMBER, 1963
3386	VIRGINIA LANDINGS, OCTOBER, 1963
3387	MASSACHUSETTS LANDINGS, JUNE, 1963
3388	MARYLAND LANDINGS, OCTOBER, 1963
3389	MAINE LANDINGS, OCTOBER, 1963
3390	ALABAMA LANDINGS, OCTOBER, 1963
3391	GEORGIA LANDINGS, NOVEMBER, 1963
3392	NEW JERSEY LANDINGS, OCTOBER, 1963
3393	FISH MEAL AND OIL, NOVEMBER, 1963
3394	FLORIDA LANDINGS, NOVEMBER, 1963
3395	FROZEN FISH REPORT, DECEMBER, 1963
3396	RHODE ISLAND LANDINGS, OCTOBER, 1963
3397	SOUTH CAROLINA LANDINGS, NOVEMBER, 1963
3398	MICHIGAN LANDINGS, OCTOBER, 1963
3399	WISCONSIN LANDINGS, NOVEMBER, 1963
3400	FISH STICKS AND PORTIONS, OCT.-DEC., 1963
3401	LOUISIANA LANDINGS, NOVEMBER, 1963
3402	NEW YORK LANDINGS, NOVEMBER, 1963
3403	VIRGINIA LANDINGS, NOVEMBER, 1963
3404	MARYLAND LANDINGS, NOVEMBER, 1963
3405	CALIFORNIA LANDINGS, OCTOBER, 1963
3406	MAINE LANDINGS, NOVEMBER, 1963
3407	MISSISSIPPI LANDINGS, OCTOBER, 1963
3408	MISSISSIPPI RIVER FISHERIES, ANNUAL, 1962
3409	MISSISSIPPI LANDINGS, NOVEMBER, 1963
3410	GEORGIA LANDINGS, DECEMBER, 1963
3411	SOUTH CAROLINA LANDINGS, DECEMBER, 1963
3412	FROZEN FISH REPORT, JANUARY, 1964
3413	FLORIDA LANDINGS, DECEMBER, 1963
3414	NORTH CAROLINA LANDINGS, DECEMBER, 1963
3415	NEW JERSEY LANDINGS, NOVEMBER, 1963
3416	NEW JERSEY LANDINGS, DECEMBER, 1963
3417	FISH STICKS AND PORTIONS, ANNUAL, 1963
3418	ALABAMA LANDINGS, NOVEMBER, 1963
3419	RHODE ISLAND LANDINGS, NOVEMBER, 1963
3420	MICHIGAN LANDINGS, NOVEMBER, 1963
3421	ALASKA FISHERIES, ANNUAL, 1962
3422	OHIO LANDINGS, OCTOBER, 1963
3423	OHIO LANDINGS, NOVEMBER, 1963
3424	OHIO LANDINGS, DECEMBER, 1963
3425	ALABAMA LANDINGS, DECEMBER, 1963
3426	FISH MEAL AND OIL, DECEMBER, 1963
3427	WISCONSIN LANDINGS, DECEMBER, 1963
3428	MARYLAND LANDINGS, DECEMBER, 1963
3429	OHIO LANDINGS, ANNUAL, 1963
3430	LOUISIANA LANDINGS, DECEMBER, 1963
3431	GEORGIA LANDINGS, JANUARY, 1964
3432	NORTH CAROLINA LANDINGS, JANUARY, 1964
3433	VIRGINIA LANDINGS, DECEMBER, 1963
3434	SOUTH CAROLINA LANDINGS, JANUARY, 1964
3435	NEW YORK LANDINGS, DECEMBER, 1963
3436	MAINE LANDINGS, DECEMBER, 1963
3437	FLORIDA LANDINGS, JANUARY, 1964
3438	FISH MEAL AND OIL, JANUARY, 1964
3439	SHRIMP LANDINGS, SEPTEMBER, 1963
3440	FROZEN FISH REPORT, FEBRUARY, 1964
3441	MICHIGAN LANDINGS, DECEMBER, 1963
3442	GULF COAST SHRIMP DATA, SEPTEMBER, 1963
3443	CALIFORNIA LANDINGS, NOVEMBER, 1963
3444	NEW JERSEY LANDINGS, JANUARY, 1964
3445	WASHINGTON LANDINGS, ANNUAL, 1963
3446	LOUISIANA LANDINGS, JANUARY, 1964
3447	RHODE ISLAND LANDINGS, DECEMBER, 1963
3448	SHRIMP LANDINGS, OCTOBER, 1963
3449	PACIFIC COAST FISHERIES, ANNUAL, 1962
3450	FISHERIES OF THE UNITED STATES, ANNUAL, 1963
3451	FROZEN FISH REPORT, ANNUAL, 1963
3452	WISCONSIN LANDINGS, JANUARY, 1964
3453	CANNED FISHERY PRODUCTS, ANNUAL, 1963
3454	INDUSTRIAL FISHERY PRODUCTS, ANNUAL, 1963
3455	PACKAGED FISHERY PRODUCTS, ANNUAL, 1963
3456	CALIFORNIA LANDINGS, DECEMBER, 1963
3457	NEW YORK LANDINGS, JANUARY, 1964
3458	MISSISSIPPI LANDINGS, DECEMBER, 1963
3459	GULF COAST SHRIMP DATA, OCTOBER, 1963
3460	MASSACHUSETTS LANDINGS, JULY, 1963
3461	MARYLAND LANDINGS, JANUARY, 1964
3462	GEORGIA LANDINGS, FEBRUARY, 1964
3463	NORTH CAROLINA LANDINGS, FEBRUARY, 1964
3464	VIRGINIA LANDINGS, JANUARY, 1964
3465	MASSACHUSETTS LANDINGS, AUGUST, 1963
3466	SOUTH CAROLINA LANDINGS, FEBRUARY, 1964
3467	OREGON LANDINGS, ANNUAL, 1963
3468	BREADED SHRIMP, OCT.-DEC., 1963
3469	CALIFORNIA LANDINGS, JANUARY, 1964
3470	FROZEN FISH REPORT, MARCH, 1964
3471	UNITED STATES FISHERIES, ANNUAL, 1962
3472	MASSACHUSETTS LANDINGS, SEPTEMBER, 1963
3473	GULF COAST SHRIMP DATA, NOVEMBER, 1963
3474	MAINE LANDINGS, BY MONTHS, ANNUAL, 1963
3475	MAINE LANDINGS, BY COUNTIES, ANNUAL, 1963
3476	RHODE ISLAND LANDINGS, ANNUAL, 1963
3477	SOUTH CAROLINA LANDINGS, ANNUAL, 1963
3478	MICHIGAN LANDINGS, JANUARY, 1964
3479	SHRIMP LANDINGS, NOVEMBER, 1963
3480	FLORIDA LANDINGS, FEBRUARY, 1964
3481	NORTH CAROLINA LANDINGS, ANNUAL, 1963
3482	MAINE LANDINGS, JANUARY, 1964
3483	NEW JERSEY LANDINGS, FEBRUARY, 1964
3484	NEW JERSEY LANDINGS, ANNUAL, 1963
3485	MASSACHUSETTS LANDINGS, OCTOBER, 1963
3486	MASSACHUSETTS LANDINGS, NOVEMBER, 1963
3487	MASSACHUSETTS LANDINGS, DECEMBER, 1963
3488	MARYLAND LANDINGS, FEBRUARY, 1964
3489	VIRGINIA LANDINGS, FEBRUARY, 1964
3490	NEW YORK LANDINGS, ANNUAL, 1963
3491	NEW YORK LANDINGS, FEBRUARY, 1964
3492	WISCONSIN LANDINGS, FEBRUARY, 1964
3493	LOUISIANA LANDINGS, FEBRUARY, 1964
3494	SHRIMP LANDINGS, DECEMBER, 1963
3495	WISCONSIN LANDINGS, ANNUAL, 1963
3496	GULF COAST SHRIMP DATA, DECEMBER, 1963
3497	MAINE LANDINGS, FEBRUARY, 1964
3498	RHODE ISLAND LANDINGS, JANUARY, 1964
3499	ALABAMA LANDINGS, ANNUAL, 1963
3500	FISHERIES OF THE UNITED STATES, ANNUAL, 1963
3501	BREADED SHRIMP, JAN.-MAR., 1964
3502	GEORGIA LANDINGS, ANNUAL, 1963
3503	CALIFORNIA LANDINGS, FEBRUARY, 1964
3504	NORTH CAROLINA LANDINGS, MARCH, 1964
3505	FISH STICKS AND PORTIONS, JAN.-MAR., 1964
3506	FLORIDA LANDINGS, MARCH, 1964
3507	FROZEN FISHERY REPORT, APRIL, 1964
3508	MASSACHUSETTS LANDINGS, BY PORTS, ANNUAL, 1963
3509	MASSACHUSETTS LANDINGS, BY GEAR, AND SUBAREA, ANNUAL, 1963
3510	MICHIGAN LANDINGS, FEBRUARY, 1964
3511	MISSISSIPPI LANDINGS, ANNUAL, 1963
3512	FISH MEAL AND OIL, FEBRUARY, 1964
3513	LOUISIANA LANDINGS, MARCH, 1964
3514	NEW YORK LANDINGS, MARCH, 1964
3515	GULF COAST SHRIMP DATA, ANNUAL, 1963
3516	MARYLAND LANDINGS, MARCH, 1964
3517	FISH MEAL AND OIL, ANNUAL, 1963
3518	FISH MEAL AND OIL, MARCH, 1964
3519	NORTH CAROLINA LANDINGS, APRIL, 1964
3520	SHRIMP LANDINGS, ANNUAL, 1963
3521	FISH MEAL AND OIL, APRIL, 1964
3522	MAINE LANDINGS, MARCH, 1964
3523	FROZEN FISH REPORT, MAY, 1964
3524	FLORIDA LANDINGS, APRIL, 1964

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C. F. S. NO.	TITLE
3525	WISCONSIN LANDINGS, MARCH 1964
3526	CALIFORNIA LANDINGS, MARCH, 1964
3527	NEW JERSEY LANDINGS, MARCH, 1964
3528	VIRGINIA LANDINGS, MARCH, 1964
3529	NEW JERSEY LANDINGS, APRIL, 1964
3530	MICHIGAN LANDINGS, MARCH, 1964
3531	NEW YORK LANDINGS, APRIL, 1964
3532	MANUFACTURED FISHERY PRODUCTS, ANNUAL, 1962
3533	CALIFORNIA LANDINGS, APRIL, 1964
3534	LOUISIANA LANDINGS, APRIL, 1964
3535	NORTH CAROLINA LANDINGS, MAY, 1964
3536	VIRGINIA LANDINGS, ANNUAL, 1963
3537	FISH MEAL AND OIL, MAY, 1964
3538	MAINE LANDINGS, APRIL, 1964
3539	TEXAS LANDINGS, SEPTEMBER, 1963
3540	FROZEN FISH REPORT, JUNE, 1964
3541	TEXAS LANDINGS, OCTOBER, 1963
3542	MARYLAND LANDINGS, ANNUAL, 1963
3543	NEW JERSEY LANDINGS, MAY, 1964
3544	OHIO LANDINGS, MARCH, 1964
3545	WISCONSIN LANDINGS, APRIL, 1964
3546	MICHIGAN LANDINGS, APRIL, 1964
3547	OHIO LANDINGS, APRIL, 1964
3548	TEXAS LANDINGS, NOVEMBER, 1963
3549	TEXAS LANDINGS, DECEMBER, 1963
3550	RHODE ISLAND LANDINGS, FEBRUARY, 1964
3551	MASSACHUSETTS LANDINGS, JANUARY, 1964
3552	LOUISIANA LANDINGS, ANNUAL, 1963
3553	SHRIMP LANDINGS, JANUARY, 1964
3554	LOUISIANA LANDINGS, MAY, 1964
3555	SHRIMP LANDINGS, FEBRUARY, 1964
3556	MARYLAND LANDINGS, APRIL, 1964
3557	NEW YORK LANDINGS, MAY, 1964
3558	MARYLAND LANDINGS, MAY, 1964
3559	FISH STICKS, PORTIONS, AND BREADED SHRIMP, APR.-JUNE, 1964
3560	NORTH CAROLINA LANDINGS, JUNE, 1964
3561	WISCONSIN LANDINGS, MAY, 1964
3562	MAINE LANDINGS, MAY, 1964
3563	GULF COAST SHRIMP DATA, JANUARY, 1964
3564	SHRIMP LANDINGS, MARCH, 1964
3565	GULF COAST SHRIMP DATA, FEBRUARY, 1964
3566	GULF COAST SHRIMP DATA, MARCH, 1964
3567	VIRGINIA LANDINGS, APRIL, 1964
3568	CALIFORNIA LANDINGS, MAY, 1964
3569	FLORIDA LANDINGS, MAY, 1964
3570	MAINE LANDINGS, JUNE, 1964
3571	FROZEN FISH REPORT, JULY, 1964
3572	RHODE ISLAND LANDINGS, MARCH, 1964
3573	FISH MEAL AND OIL, JUNE, 1964
3574	MIDDLE ATLANTIC FISHERIES, ANNUAL, 1963
3575	MASSACHUSETTS LANDINGS, FEBRUARY, 1964
3576	NEW JERSEY LANDINGS, JUNE, 1964
3577	MICHIGAN LANDINGS, MAY, 1964
3578	MASSACHUSETTS LANDINGS, MARCH, 1964
3579	VIRGINIA LANDINGS, MAY, 1964
3580	MARYLAND LANDINGS, JUNE, 1964
3581	TEXAS LANDINGS, JANUARY, 1964
3582	TEXAS LANDINGS, FEBRUARY, 1964
3583	TEXAS LANDINGS, MARCH, 1964
3584	SHRIMP LANDINGS, APRIL, 1964
3585	MISSISSIPPI LANDINGS, JANUARY, 1964
3586	GULF COAST SHRIMP DATA, APRIL, 1964
3587	NEW YORK LANDINGS, JUNE, 1964
3588	NORTH CAROLINA LANDINGS, JULY, 1964
3589	TEXAS LANDINGS, APRIL, 1964
3590	NEW ENGLAND FISHERIES, ANNUAL, 1963
3591	MISSISSIPPI LANDINGS, FEBRUARY, 1964
3592	MISSISSIPPI LANDINGS, MARCH, 1964
3593	MISSISSIPPI LANDINGS, APRIL, 1964
3594	MISSISSIPPI LANDINGS, MAY, 1964
3595	LOUISIANA LANDINGS, JUNE, 1964
3596	RHODE ISLAND LANDINGS, APRIL, 1964
3597	OHIO LANDINGS, MAY, 1964
3598	SHRIMP LANDINGS, MAY, 1964
3599	GULF COAST SHRIMP DATA, MAY, 1964

C. F. S. NO.	TITLE
3600	FROZEN FISH REPORT, AUGUST, 1964
3601	HAWAII FISHERIES, ANNUAL, 1963
3602	FLORIDA LANDINGS, ANNUAL, 1963
3603	CALIFORNIA LANDINGS, JUNE, 1964
3604	TEXAS LANDINGS, MAY, 1964
3605	FLORIDA LANDINGS, JUNE, 1964
3606	FISH MEAL AND OIL, JULY, 1964
3607	VIRGINIA LANDINGS, JUNE, 1964
3608	GREAT LAKES LANDINGS, JUNE, 1964
3609	MISSISSIPPI LANDINGS, JUNE, 1964
3610	ALABAMA LANDINGS, JANUARY, 1964
3611	ALABAMA LANDINGS, FEBRUARY, 1964
3612	ALABAMA LANDINGS, MARCH, 1964
3613	ALABAMA LANDINGS, APRIL, 1964
3614	ALABAMA LANDINGS, MAY, 1964
3615	ALABAMA LANDINGS, JUNE, 1964
3616	CHESAPEAKE FISHERIES, ANNUAL, 1963
3617	TEXAS LANDINGS, JUNE, 1964
3618	MARYLAND LANDINGS, JULY, 1964
3619	GEORGIA LANDINGS, MARCH, 1964
3620	GEORGIA LANDINGS, APRIL, 1964
3621	GEORGIA LANDINGS, MAY, 1964
3622	GEORGIA LANDINGS, JUNE, 1964
3623	GEORGIA LANDINGS, JULY, 1964
3624	GREAT LAKES FISHERIES, ANNUAL, 1963
3625	TEXAS LANDINGS, JULY, 1964
3626	NEW YORK LANDINGS, JULY, 1964
3627	TEXAS LANDINGS, ANNUAL, 1963
3628	SOUTH CAROLINA LANDINGS, MARCH, 1964
3629	SOUTH CAROLINA LANDINGS, APRIL, 1964
3630	SOUTH CAROLINA LANDINGS, MAY, 1964
3631	SOUTH CAROLINA LANDINGS, JUNE, 1964
3632	SOUTH CAROLINA LANDINGS, JULY, 1964
3633	ALABAMA LANDINGS, JULY, 1964
3634	FLORIDA LANDINGS, JULY, 1964
3635	LOUISIANA LANDINGS, JULY, 1964
3636	SHRIMP LANDINGS, JUNE, 1964
3637	GULF COAST SHRIMP DATA, JUNE, 1964
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3639	NORTH CAROLINA LANDINGS, AUGUST, 1964
3640	FROZEN FISH REPORT, SEPTEMBER, 1964
3641	RHODE ISLAND LANDINGS, MAY, 1964
3642	GEORGIA LANDINGS, AUGUST, 1964
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3644	MARYLAND LANDINGS, AUGUST, 1964
3645	NEW JERSEY LANDINGS, JULY, 1964
3646	NEW JERSEY LANDINGS, AUGUST, 1964
3647	FLORIDA LANDINGS, AUGUST, 1964
3648	RHODE ISLAND LANDINGS, JUNE, 1964
3649	FISH MEAL AND OIL, AUGUST, 1964
3650	NEW YORK LANDINGS, AUGUST, 1964
3651	VIRGINIA LANDINGS, JULY, 1964
3652	MASSACHUSETTS LANDINGS, APRIL, 1964
3653	MASSACHUSETTS LANDINGS, MAY, 1964
3654	ALABAMA LANDINGS, AUGUST, 1964
3655	LOUISIANA LANDINGS, AUGUST, 1964
3656	SHRIMP LANDINGS, JULY, 1964
3657	GULF COAST SHRIMP DATA, JULY, 1964
3658	GREAT LAKES LANDINGS, JULY, 1964
3659	NORTH CAROLINA LANDINGS, SEPTEMBER, 1964
3660	VIRGINIA LANDINGS, AUGUST, 1964
3661	TEXAS LANDINGS, AUGUST, 1964
3662	NEW JERSEY LANDINGS, SEPTEMBER, 1964
3663	FISH STICKS, PORTIONS, AND BREADED SHRIMP, JULY-SEPT., 1964
3664	CALIFORNIA LANDINGS, JULY, 1964
3665	MAINE LANDINGS, AUGUST, 1964
3666	SOUTH ATLANTIC FISHERIES, ANNUAL, 1963
3667	GEORGIA LANDINGS, SEPTEMBER, 1964
3668	MISSISSIPPI LANDINGS, JULY, 1964
3669	FLORIDA LANDINGS, SEPTEMBER, 1964
3670	FROZEN FISH REPORT, OCTOBER, 1964
3671	IMPORTS AND EXPORTS OF FISHERY PRODUCTS, ANNUAL, 1963
3672	FISH MEAL AND OIL, SEPTEMBER, 1964
3673	MARYLAND LANDINGS, SEPTEMBER, 1964
3674	SOUTH CAROLINA LANDINGS, SEPTEMBER, 1964

Created in 1849 the Department of the Interior—a department of conservation--is concerned with the management, conservation, and development of the Nation's water, fish, wildlife, mineral, forest, and park and recreational resources. It also has major responsibilities for Indian and Territorial affairs.

As the Nation's principal conservation agency, the Department works to assure that nonrenewable resources are developed and used wisely, that park and recreational resources are conserved for the future, and that renewable resources make their full contribution to the progress, prosperity, and security of the United States—now and in the future.

☆ U. S. GOVERNMENT PRINTING OFFICE: 1966 O - 219-441